

TIROS VII RADIATION DATA CATALOG AND USERS' MANUAL

Volume 4

(October 1, 1964 - June 19, 1965)

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**TIROS VII
RADIATION DATA CATALOG
AND
USERS' MANUAL
VOLUME 4**

OCTOBER 1, 1964

JUNE 19, 1965

**by
Staff Members
of the
Laboratory for Atmospheric and Biological Sciences
Goddard Space Flight Center
National Aeronautics and Space Administration**

January 15, 1966

FOREWORD

The quantity of radiation data acquired from TIROS VII over a two year useful lifetime exceeds several times over the total quantity acquired from any of the previous TIROS radiation experiments. As a result, the TIROS VII Catalog-Manual is being published in four volumes. Each volume of this series contains time-dependent information for the specific time period covered by the Volume concerning radiometer response patterns, possible corrections for instrumental degradation, the Index of Final Meteorological Radiation Tapes, and Subpoint Track Summaries. This, the fourth volume, covers the time period October 1, 1964 to June 19, 1965, and also contains degradation corrections for channels 1, 2, 3, and 5. The first volume of this Catalog-Manual also contains general discussions about the nature of the experiment, the calibration, and the processing, coverage and documentation of the data. The third volume also contains discussions about asymmetrical degradation and the channel 1 (15 micron data) degradation corrections from launch.

Many members of the Laboratory for Atmospheric and Biological Sciences (formerly the Aeronomy and Meteorology Division) contributed to the success of the TIROS VII medium resolution radiometer experiment.

The task of obtaining and assembling the information contained in this manual into written form suitable for publication was largely accomplished by the following persons:

Mrs. Musa Pasternak, Editor

Mr. W. R. Bandeen

Mrs. Ingrid Strange

Mr. Frederick Woolfall

The efforts of these individuals are hereby acknowledged.

The preparation of the material presented in Appendix B was accomplished mainly through the effort of Mrs. Jo Anne Eller.

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TABLE OF CONTENTS

| | <i>Page</i> |
|--|-----------------------|
| Foreword | iii |
| List of Figures | v |
| List of Tables | (See Volumes 1 and 3) |
| List of Common Symbols | (See Volumes 1 and 3) |
| I INTRODUCTION | 1 |
| II DESCRIPTION OF THE MEDIUM RESOLUTION RADIOMETER EXPERIMENT | (See Volume 1) |
| III CALIBRATION | (See Volume 1) |
| IV RADIATION DATA PROCESSING | (See Volume 1) |
| V RADIATION DATA COVERAGE AND DOCUMENTA- TION | (See Volume 1) |
| VI PRE-LAUNCH AND POST-LAUNCH PERFORMANCE OF THE RADIATION EXPERIMENT | 1 |
| 6.1 Pre-Launch Behavior of the Experiment | (See Volume 1) |
| 6.2 Post-Launch Behavior of the Experiment | 1 |
| 6.3 Estimate of the Accuracy of the Data | 2 |
| 6.4 Comments on Significant Engineering Aspects | 3 |
| VII CONCLUSIONS | 3 |
| VIII REFERENCES | (See Volumes 1 and 3) |
| APPENDIX A Index of Final Meteorological Radiation Tapes | 25 |
| APPENDIX B Subpoint Track Summary of Available Radiation Data for the Period October 1, 1964—June 19, 1965 | 58 |

LIST OF FIGURES

Figures 1 to 81 and B1 and B2 are found in Volume 1; Figure 82 is in Volume 2; and Figures 83 to 89 and revised Figure 70 are in Volume 3. Of these, only the figures containing time-dependent information are listed below.

| | |
|--|-------|
| 16(a) Percent of Time the Satellite Spends in Sunlight. | 4 |
| 16(b) T_v and T_c vs Orbit Number. | 4 |
| 18 Portions of the Orbital Period When the Satellite is in Sun- light or in the Earth's Shadow vs Orbit Number. | 5 - 6 |
| 66 Heliocentric Views of the Earth. | 7 - 8 |
| 67 Solar Illuminated Latitudes for TIROS VII. | 9 |
| 68 Frequency Differences Between Flight and Calibrated Space-Viewed Levels vs Orbit Number: (a) Channels 1, 2, and 4; (b) Channels 3 and 5. | 10 |
| 70 $T_{BB(ave)}^i$ and \bar{W}_{ave}^i for Channel 1 vs Day After Launch. | 11 |

| | | |
|-------|---|---------|
| 71 | $T_{BB(ave)}^i$ and \bar{W}_{ave}^i for Channel 2 vs Day After Launch. | 12 |
| 73 | Quasi-global values of A^i and $A^{i(W)}$ for Channel 3 vs Days After Launch. | 13 |
| 74 | Quasi-global values of A^i and $A^{i(W)}$ for Channel 5 vs Days After Launch. | 14 |
| 77 | δT_{BB} vs Orbit Number, Channel 1 (a) Floor side, (b) Wall side. | 15 |
| 78 | δT_{BB} vs Orbit Number, Channel 2 (a) Floor side, (b) Wall side. | 16 - 17 |
| 80 | κ^i and ρ^i vs Orbit Number, Channel 3. | 18 |
| 81 | κ^i and ρ^i vs Orbit Number, Channel 5. | 19 |
| 83 | Channel 1 Floor and Wall Values of $T_{BB(ave)}^i$ and \bar{W}_{ave}^i vs Days After Launch. | 20 |
| 84 | Channel 2 Floor and Wall Values of $T_{BB(ave)}^i$ and \bar{W}_{ave}^i vs Days After Launch. | 21 |
| 89 | Indicated Deviations in Channel 2 Measurements vs Orbit Number for Floor and Wall Sides Obtained from Equatorial Ocean Measurements. | 22 |
| 90(a) | Channel 3 Floor and Wall Sahara Measurements for February 10-28, 1965 vs scattering angle. | 23 |
| 90(b) | Channel 5 Floor and Wall Sahara Measurements for February 10-28, 1965 vs scattering angle. | 24 |
| A1 | Observed Motion of the TIROS VII Spin Vector on the Celestial Sphere. | 26 |
| A2 | Time History of the TIROS VII Spin Rate. | 27 |

I. INTRODUCTION

This volume contains time-dependent information for the period October 1, 1964 to June 19, 1965 concerning radiometer response patterns, the Index of Final Meteorological Radiation Tapes, and Subpoint Track Summaries. This volume also contains degradation correction nomograms for channels 1, 2, 3, and 5. General discussions of the experiment, the calibration of the radiometer, and the processing, coverage, and documentation of the data are found in Volume 1. General discussions of degradation are found in Volumes 1 and 3.

VI. PRE-LAUNCH AND POST-LAUNCH PERFORMANCE OF THE RADIATION EXPERIMENT

6.2 Post-Launch Behavior of the Experiment

Channels 1, 2, 3, and 5 continued to degrade, and channels 1 and 2 exhibited an increasingly greater degree of asymmetrical degradation. This degradation is seen in the quasi-global averages for floor, wall, and both sensors (Figures 70, 71, 73, 74, 83, and 84).

The degradation nomograms for channels 1, 2, 3, and 5 shown in this volume were constructed using the quasi-global averages as explained in Volume 3.

From Equation (23) for \bar{W} in Volume 3, when both the floor and wall sensors view space, $\bar{W}^f \simeq \bar{W}^w \simeq 0$, and the space-viewed level is given by $(C^w - C^f)\bar{W}^s$. As the difference between C^w and C^f increases with days after launch, the space-viewed level rises. This happens for channels 1, 2, and 4, as shown in Figure 68.

The increase in the channel 2 space-viewed level required a raising of the channel 2 digital number representing the space-earth discriminant to 25 after January 1, 1965 from a digital number of 20 before that time. (Three or more consecutive channel 2 radiation values whose digital numbers are less than or equal to the space-earth discriminant are considered to be space-viewing. The relationship between digital number and T_{BB}

for channel 2 is shown in Figures 26 to 32. For example, at $T_c = 12^\circ\text{C}$, a digital number of 25 corresponds to measured channel 2 floor and wall temperatures of 217°K and 203°K respectively as seen in Figure 28.) Since the computer now has to consider a higher radiation level as the space-earth discriminant, it is possible for it to confuse low earth radiation values within a swath obtained by the wall sensor with the space-viewed level. Thus, one actual swath may be divided into two false swaths, with the mislocated data points in these two swaths being negatively tagged. Hence, one should be cautious in using negatively-tagged data in a computer listing.³⁹

The theory predicts that asymmetrical degradation (AOD) causes negative-going pulses to appear in the analog signal. Apparently, these negative-going pulses were too small to be detected throughout most of the history of useful TIROS VII data, but as the AOD increased, they became evident. They became approximately 4 cps by November 14, 1964 for channel 1 and 2.5 cps by May 19, 1965 for channel 2.

Negative-going pulses would not be present in the short wavelength channels even if AOD should occur because \bar{W}_s is essentially zero within the spectral response of these channels. To ascertain that AOD has definitely occurred in the short wavelength channels, it is necessary to view the same target through both sides of the radiometer. From February 15, 1965 to February 22, 1965, the spin vector of TIROS VII was torqued some 105° in such a manner as to allow the comparison of floor measurements over the Sahara Desert before the torquing with wall measurements taken after the torquing. The results for the wall and floor measurements of channels 3 and 5 vs scattering angle are shown in Figures 90a and 90b. These figures show that the wall side measurements for channel 3 are approximately 2.5 times larger than the floor side, and the channel 5 floor and wall values were approximately the same.

There is some uncertainty in the actual

amount of AOD present in channel 3 at this time because, after the initial torquing had been accomplished, T_c fell to -7°C (below 0°C , the lowest value for which a calibration run had been made in the laboratory).

Also, there is not a one-to-one correspondence between the component angles of incidence, reflection, and azimuth making up equivalent "scattering" angles. However, at least part of the 2.5 factor apparently can be attributed to AOD occurring in channel 3.

As in the previous volumes, an unfavorable satellite-sun geometry existed for several days at a time in the period covered by Volume 4, permitting the direct rays of the sun to impinge upon the sensors from the wall direction momentarily once during each satellite rotation. (See Section 6.2 of Volume 1 for a discussion of this phenomenon.) There were eleven periods during the time interval covered by this volume when such a unfavorable satellite-sun geometry occurred, viz., the periods including the orbits numbered 7120-7224 (TIROS VII days 482-489), 7631-7675 (days 516-519), 8073-8219 (days 546-556), 8464-8669 (days 572-586), 8771-8815 (days 593-596), 8959-8974 (days 606-607), 9459-9499 (days 640-642), 9586-9724 (days 648-658), 10409-10410 (day 704), 10510-10613 (days 711-718), and 10739-10784 (days 726-729).

In several orbits when there was no interference with the long wavelength channels but interference with the short wavelength channels only, the data were reduced. Data users should note that these "sun spikes" in the short wavelength channels produce erroneous values.

6.2.1 Channel 1 The corrections to channel 1 data were constructed using the \bar{W}_{ave}^i values from the quasi-global average curves in Figures 70 and 83 by the method described in Volume 3. These corrections are given in the two nomograms in Figures 77a and b of this volume. The cut-off date for the usefulness of channel 1 data was determined to be November 14, 1964 at which time negative-going pulses reaching a magnitude of 4 cps were observed.

6.2.2 Channel 2 The corrections to channel 2 data were obtained using the \bar{W}_{ave}^i values from the quasi-global average curves in Figures 71 and 84 by the method described in Volume 3. These corrections are shown in the nomograms in Figures 78a and b. As in Volume 3, Figure 89 gives the difference value $M = T_{SFC} - T'_{BB(SFC)}$, another indication of instrumental degradation.

6.2.3 Channel 4 The history of channel 4 data and degradation nomograms from launch until Day 249 are given in Volumes 1 and 2. Because of the subsequent erratic behavior and severe degradation of channel 4 data, their use after Day 249 is not recommended, and, hence, no further correction nomograms are given.

6.2.4 Channel 3 The correction nomogram in Figure 80 was constructed using the method described in Section 6.2.4, Volume 1, and is used in the same way as in Volume 1. The values of A^i used for the correction nomogram were obtained from the curves drawn through the quasi-global averages of Figure 73.

Since channel 3 degrades to approximately one-half of its original level by December 25, 1964, this was chosen as the cut-off date for the channel 3 correction nomogram.

6.2.5 Channel 5 The absolute magnitude of channel 5 values of Δf in Figure 68 decreased to an average of -0.5 cps. Thus the correction nomogram in Figure 81 was constructed using the new Δf value and the method described in Section 6.2.5, Volume 1. It is used in the same way as in Volume 1.

6.3 Estimate of the Accuracy of the Data

In all cases the estimates of accuracy given below apply to the midrange of target intensities. The accuracy of the thermal channels suffers additionally at very low target temperatures.

6.3.1 Channel 1 The estimated short-term relative accuracy of T_{BB} measurements from a given side (floor or wall) is $\pm 2^\circ\text{K}$, and the estimated absolute accuracy increases linearly from $\pm 12^\circ\text{K}$ on October 1, 1964 to $\pm 13^\circ\text{K}$ on November 14, 1965 after

applying corrections from Figure 77.

6.3.2 Channel 2 The estimated short-term relative accuracy of T_{RB} measurements from a given side is $\pm 2^\circ K$, and the estimated absolute accuracy increases linearly from $\pm 10^\circ K$ on October 1, 1964 to $\pm 15^\circ K$ on June 19, 1965.

6.3.3 Channel 4 No estimates for the period covered by Volume 4 are given.

6.3.4 Channel 3 and Channel 5 The estimates of the relative and absolute accuracies of channel 3 and 5 data have not changed from Volume 1.

6.4 Comments on Significant Engineering Aspects of the Experiment

The spin vector of TIROS VII was torqued about 105° during the period February 15-22, 1965, to permit the comparison of floor with wall sensor data over the sun-lit Sahara (See Section 6.2). The torquing maneuver changed the astronomical declination of the spin vector from $+23^\circ$ on February 15, 1965 to -65° on February 23, 1965. Before the torquing maneuver, the floor and wall measurements were predominately taken at day and night local time respectively. The torquing increased the minimum satellite nadir angle (angle between the spin axis and the orbital plane) from 17° to 56° , as listed in Appendix A. For an orbit having a 56° minimum nadir angle, most of the satellite data are in the alternating mode (Figure B2) and each of the floor and wall directions acquires both daytime and nighttime data on a more nearly equal basis than it usually does. Thus, for about a week after torquing (February 23 - March 1, 1965) the wall sensor viewed predominately the daytime Sahara desert in place of the floor sensor. The interchange of floor and wall values with time obviously influenced the magnitude of the average regional uncorrected measurements. As listed in Appendix A, the mini-

mum nadir angle decreased from 56° to 22° by March 7, and the predominant day-floor, night-wall pattern in the measurements returned once again.

CONCLUSIONS

The major limitation of the TIROS VII medium resolution radiometer experiment is the uncertainty in the absolute values of the measurements, resulting from the degradation of the radiometer response, and, also, from electronic degradation which, for the first time, was conclusively detected in TIROS VII. The degradation corrections given in Section VI can serve as a guide for interpreting the data in terms of absolute values. However, it must be emphasized that these corrections are only our best estimates, based upon certain simplifying assumptions, of the effects of a complicated degradation mechanism which we do not yet fully understand, and that the measurements thus corrected may still contain appreciable uncertainties.

Because of the extended lifetime of the radiometer, the potential of the TIROS VII radiometric data for climatological studies is significantly greater than it was for previous TIROS satellites. In utilizing the measurements over extended periods, however, channel 2 and 5 data should be used in lieu of channel 4 and 3 data, respectively, wherever possible because of the superior stability characteristics of the former two channels.

For studies involving relative measurements over a short period of time, data from channels 4, 1, and 3 are considered to be valid for time periods from launch to February 23, 1964, November 14, 1964, and December 25, 1964, respectively. For such studies, data from channels 2 and 5 are considered to be valid throughout the entire two year period covered by Volumes 1 through 4.

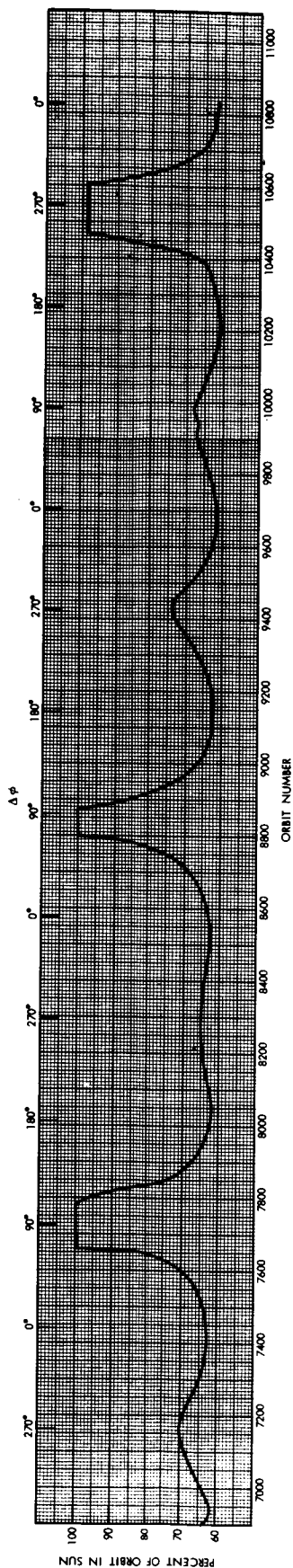


Figure 16a—Percent of the orbital period which the satellite spends in sunlight versus orbit number. Also shown on the upper abscissa is $\Delta\phi$, the right ascension of the sun minus the right ascension of the orbital ascending node.

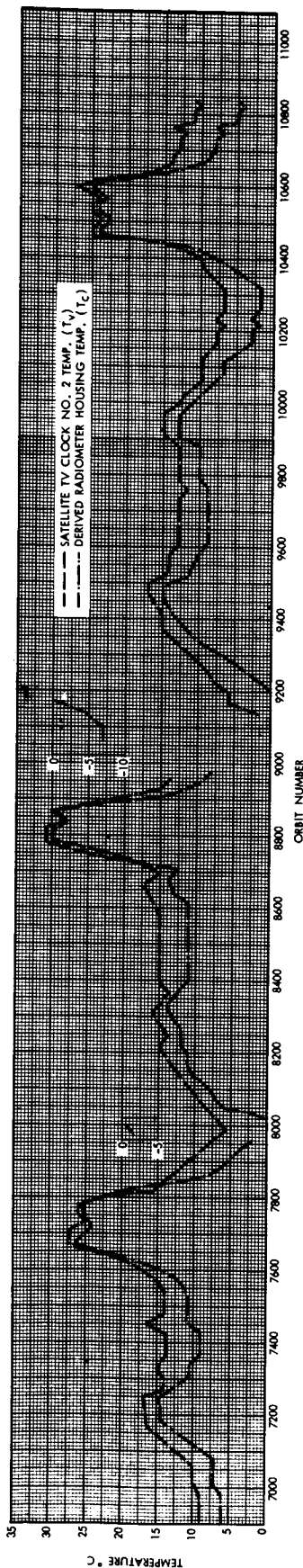


Figure 16b—Television clock number 2 temperature (T_v), and derived radiometer housing temperature (T_c) versus orbit number. Telemetry of the "housekeeping information" for the radiometer ceased at orbit 1276, after which T_c was derived from T_v . In orbits 7960 to 8000 and 9060 to 9170, T_c and sometimes T_v dip below 0°C . A separate temperature scale drawn beside the region of the dip is then used for the values below 0°C .

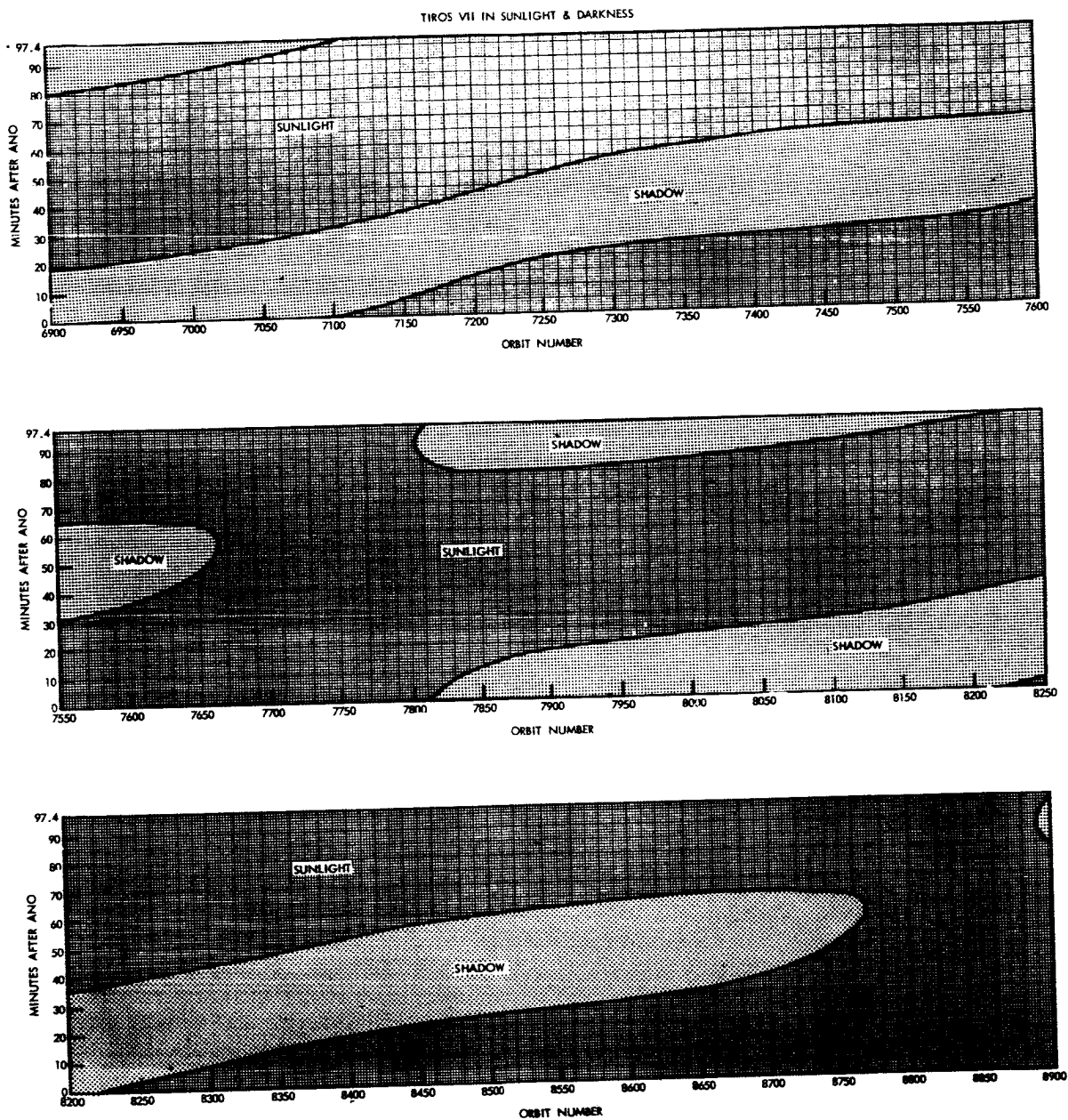


Figure 18—Portions of the 97.4 minute orbital period when the satellite is in sunlight and in the Earth's shadow, expressed in minutes after the ascending node, versus orbit number. Figure 18 is continued on next page.

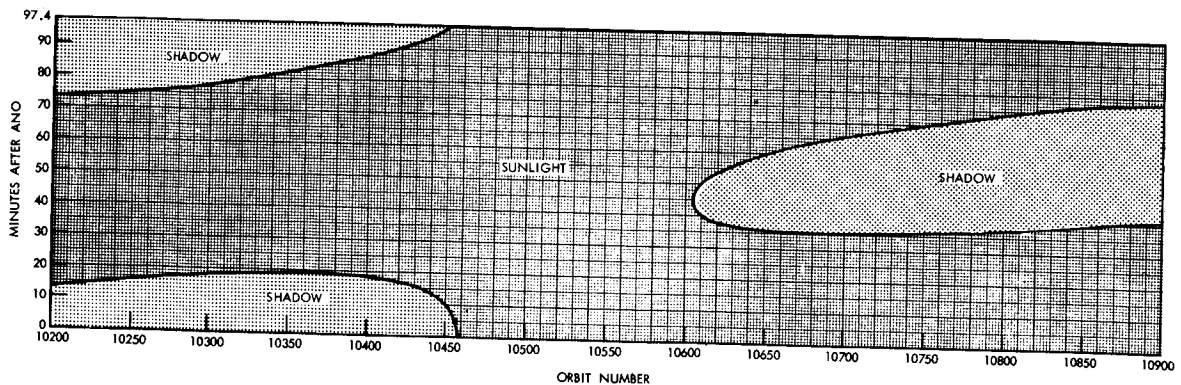
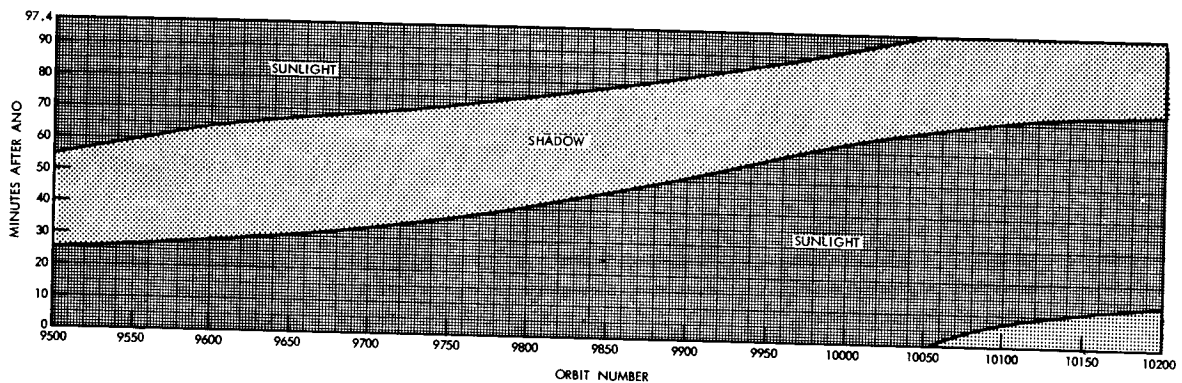
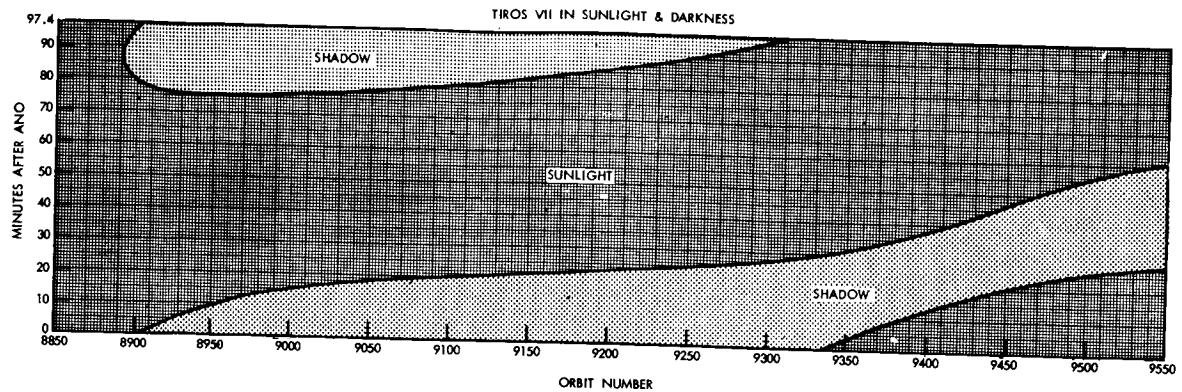
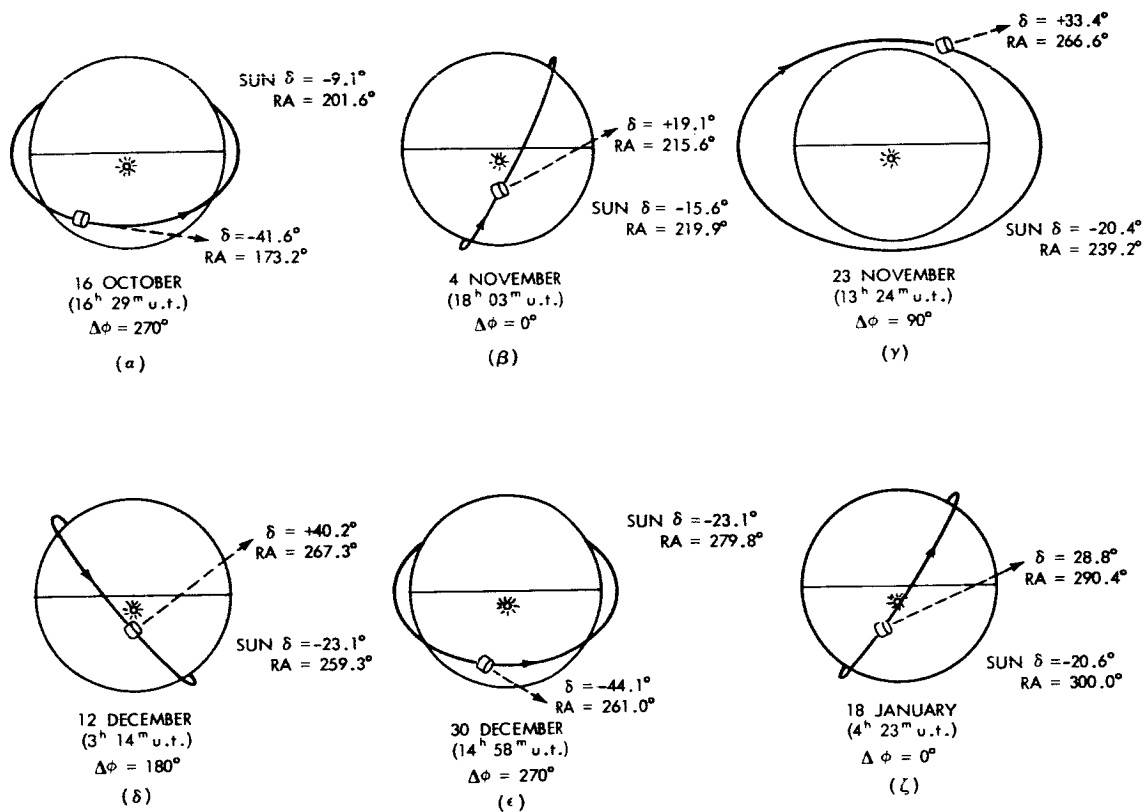


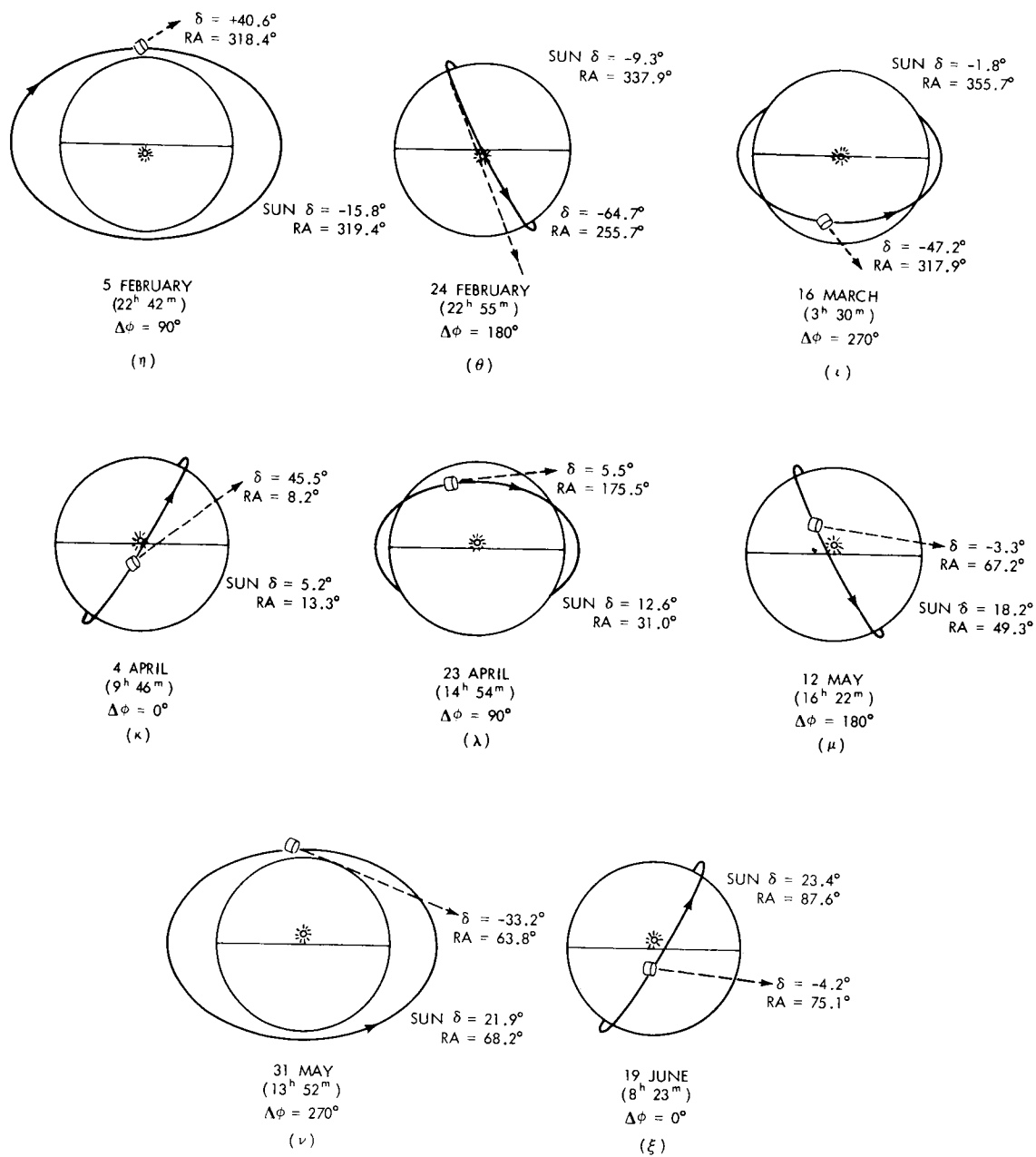
Figure 18—Portions of the 97.4 minute orbital period when the satellite is in sunlight and in the Earth's shadow, expressed in minutes after the ascending node, versus orbit number. Figure 18 is continued from preceeding page.



ALL CALENDAR DATES ARE IN 1964 AND 1965

Figure 66—(α, β, γ, δ, ε, ζ)

Heliocentric views of the Earth and the precessing TIROS VII orbital plane. The celestial coordinates of the sun and the satellite spin vector are shown for each selected day. The time is given to the nearest minute and corresponds to the given value of $\Delta\phi$.



ALL CALENDAR DATES ARE IN 1965

Figure 66—(η, θ, ι, κ, λ, μ, ν, and ξ)

Heliocentric views of the Earth and the precessing TIROS VII orbital plane. The celestial coordinates of the sun and the satellite spin vector are shown for each selected day. The time is given to the nearest minute and corresponds to the given value of Δφ.

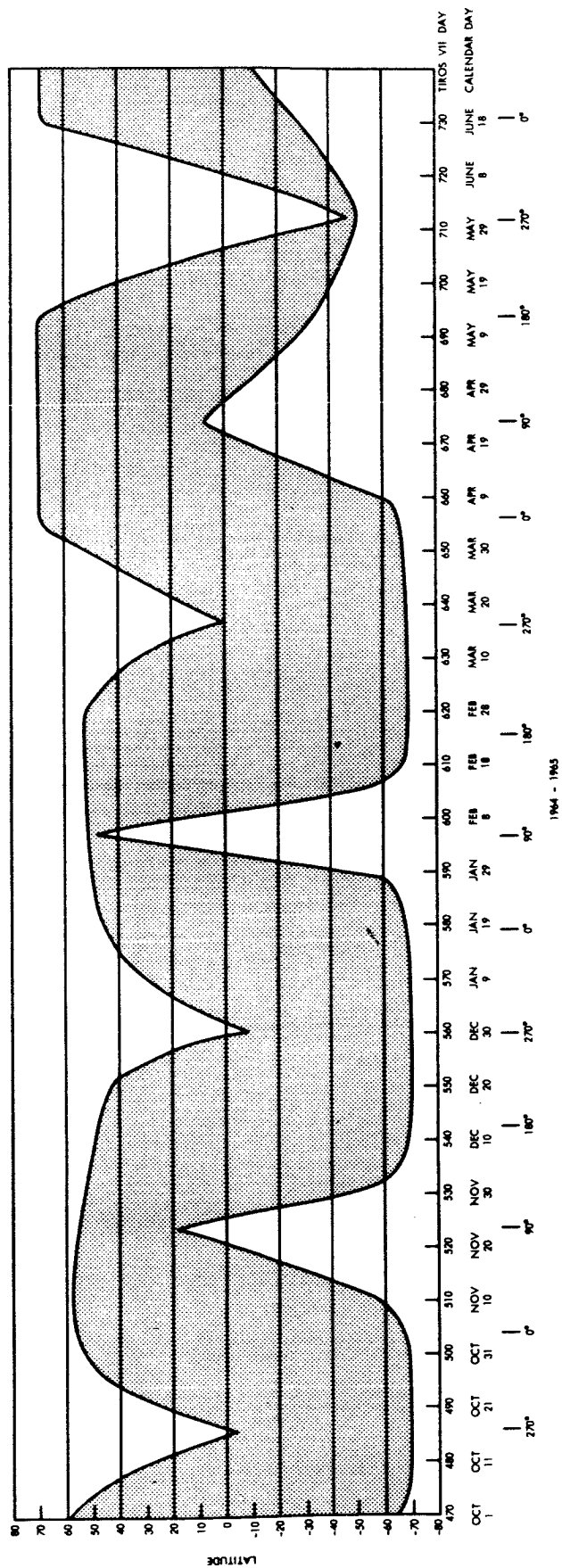


Figure 67—Solar illuminated latitudes for TIROS VII.

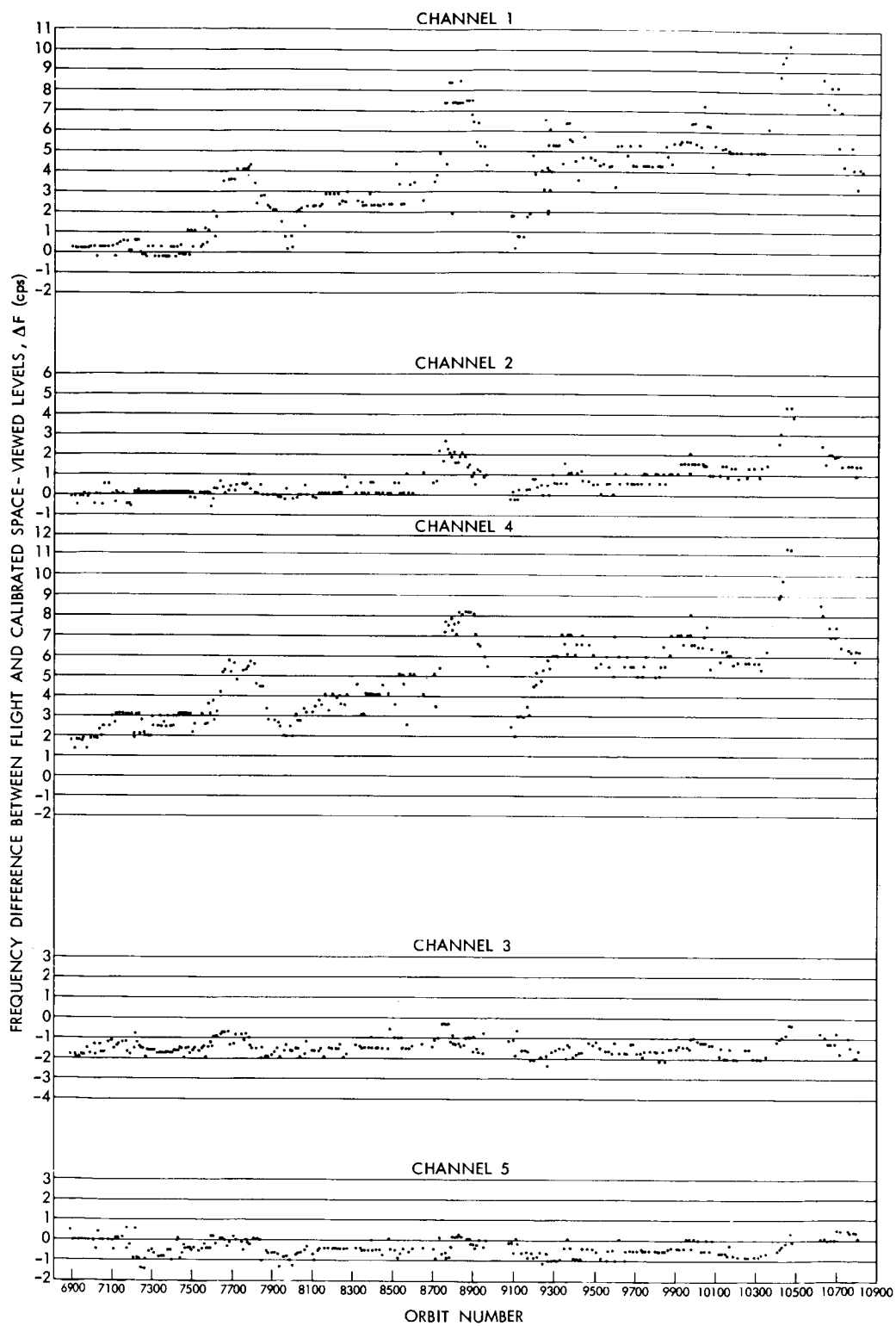


Figure 68—Frequency difference between flight and calibrated space-viewed levels vs. orbit number for channels 1 to 5.

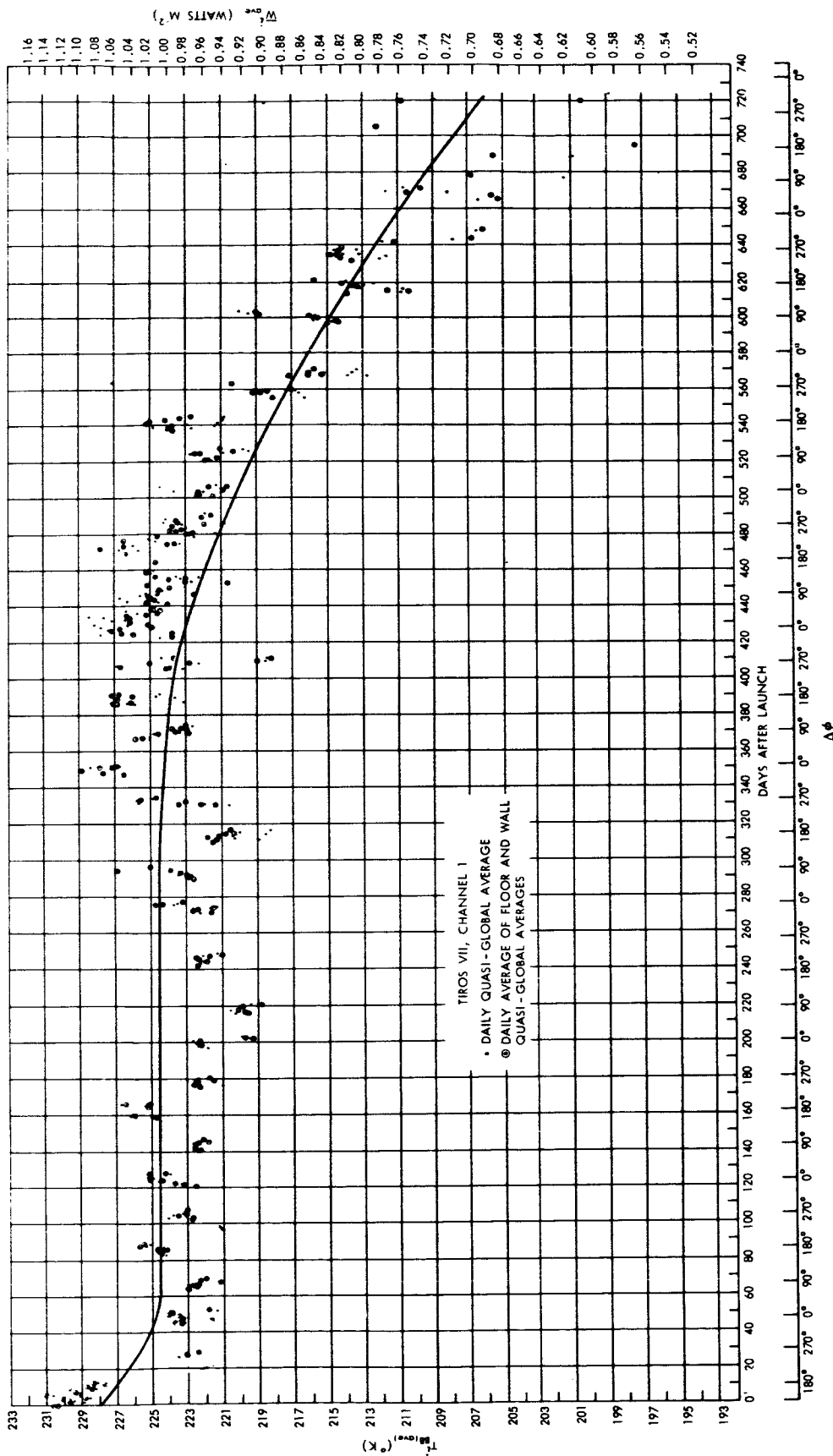


Figure 70—The average quasi-global equivalent blackbody temperature, $T_{BB(ave)}$, for channel 1 vs. days after launch. A scale for converting to \bar{W}_{ave}^1 is shown along the right-hand ordinate. Two quasi-global averages are shown for the latitudinal range 70° N to 70° S: (1) the average of all measurements both wall and floor, and (2) the average of the separate floor and wall quasi-global averages.

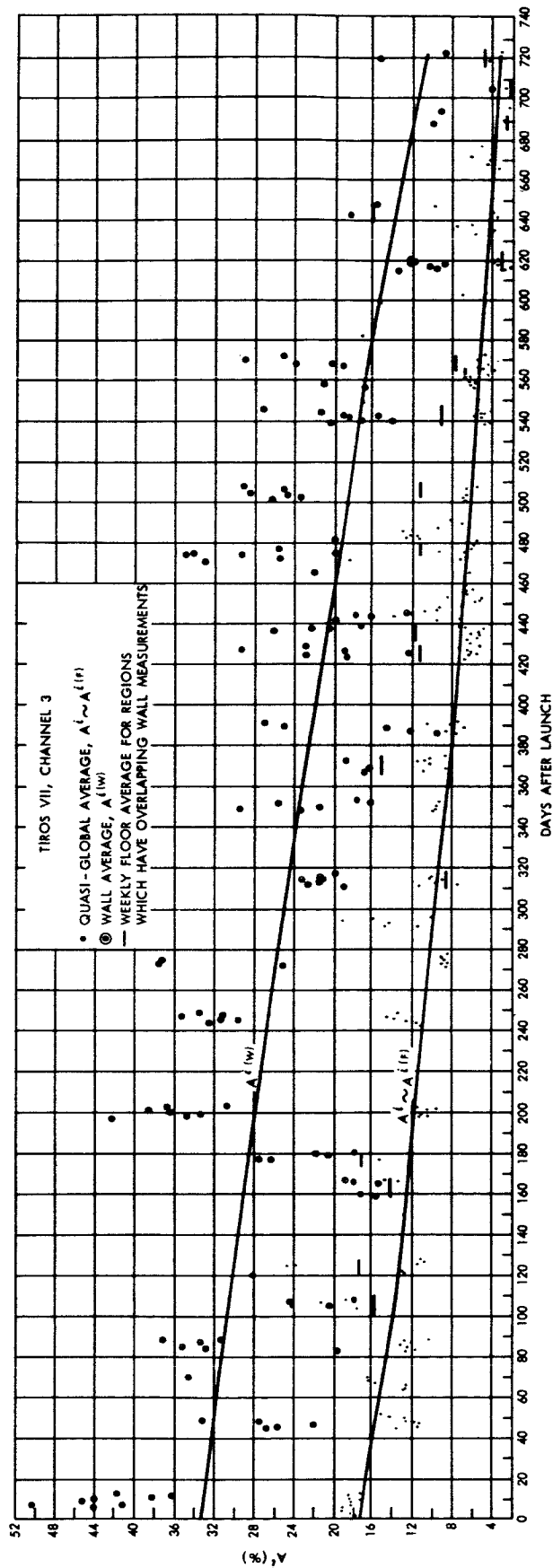


Figure 73—The average quasi-global albedo A^1 and $A^1(W)$, in the latitudinal range 70° N to 70° S for channel 3 vs. days after launch. Since there are few wall measurements, the quasi-global averages of $A^1(F)$ and A^1 are essentially the same. The bars represent the weekly averages of floor measurements for regions which have overlapping wall measurements.

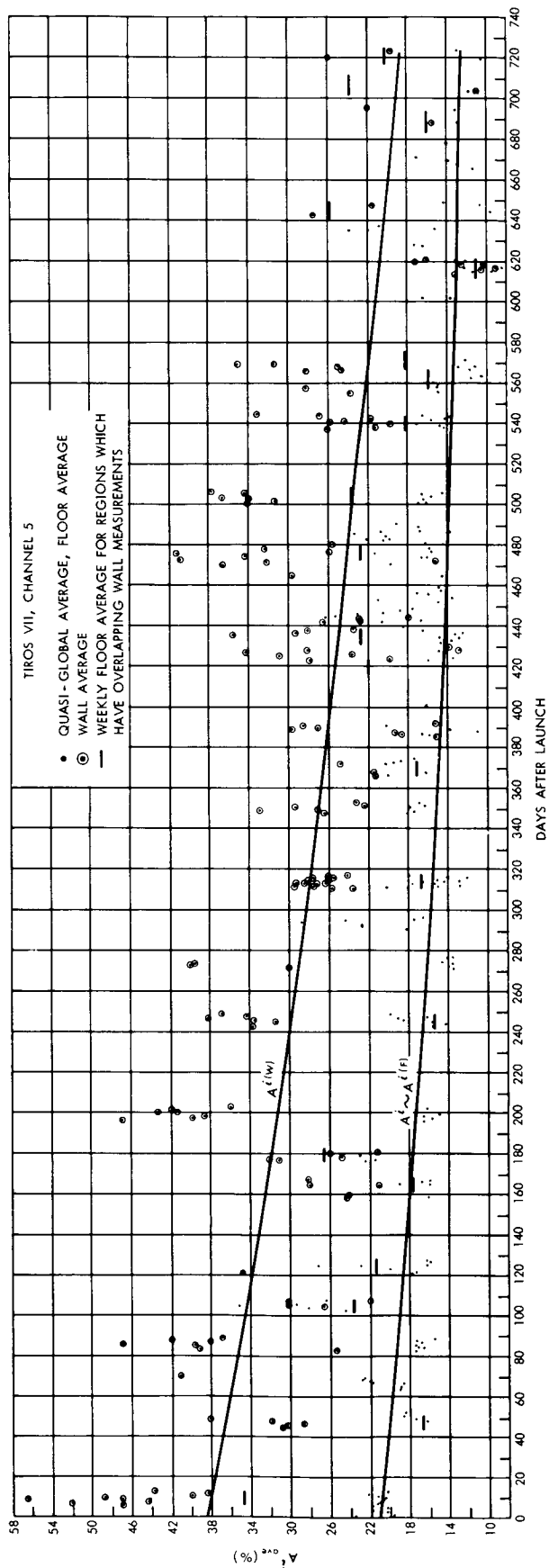


Figure 74.—The average quasi-global albedo A^i and $A^{i(W)}$, in the latitudinal range of 70° N to 70° S for channel 5 vs. days after launch. Since there are few wall measurements the quasi-global averages of $A^{i(F)}$ and A^i are essentially the same. The bars represent the weekly averages of floor measurements for regions which have overlapping wall measurements.

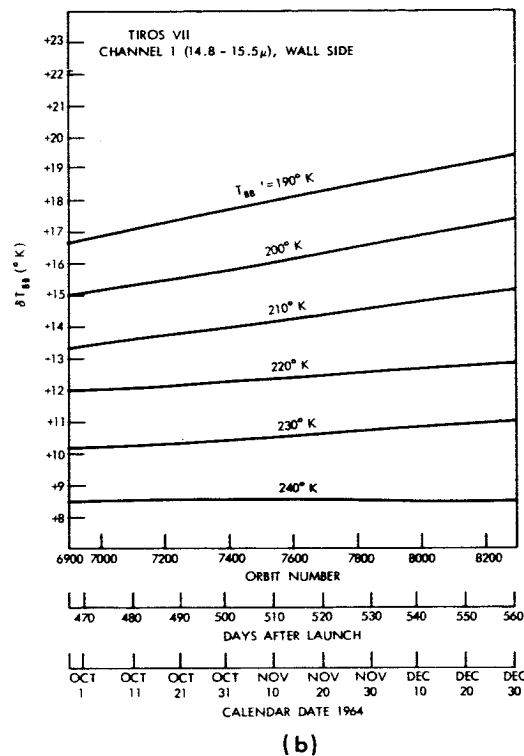
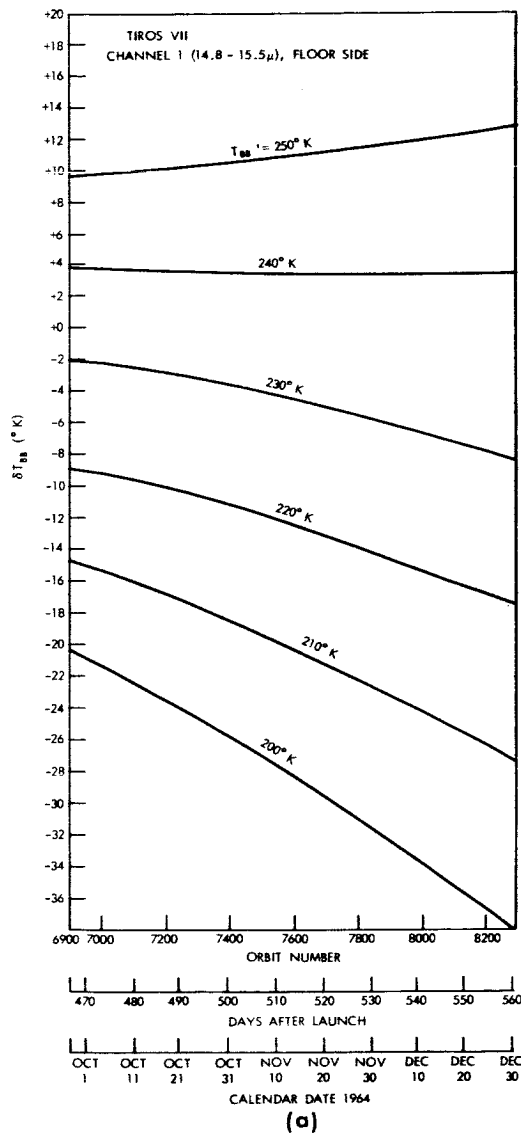


Figure 77a—Temperature corrections δT_{BB} vs. orbit number, channel 1, floor side. An equivalent blackbody temperature measurement, T'_{BB} , should be corrected by adding the δT_{BB} value corresponding to the appropriate orbit number. (δT_{BB} includes both symmetric and asymmetric components.)

Figure 77b—Temperature corrections δT_{BB} vs. orbit number, channel 1, wall side. An equivalent blackbody temperature measurement, T'_{BB} , should be corrected by adding the δT_{BB} value corresponding to the appropriate orbit number. (δT_{BB} includes both symmetric and asymmetric components.)

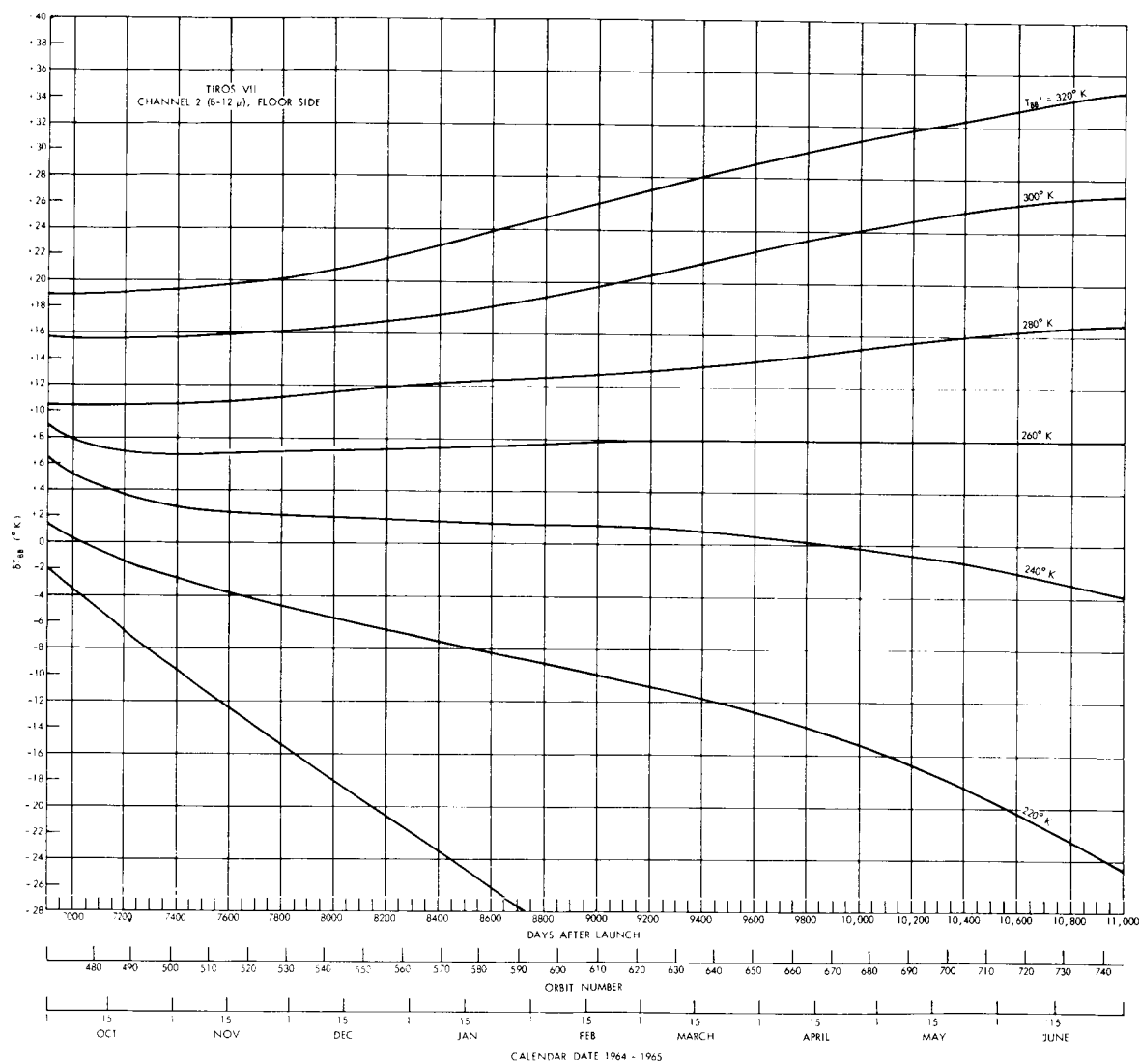


Figure 78a—Temperature corrections δT_{BB} vs. orbit number, channel 2, floor side. An equivalent blackbody temperature measurement T'_{BB} should be corrected by adding the δT_{BB} value corresponding to the appropriate orbit number. (δT_{BB} includes both symmetric and asymmetric components.)

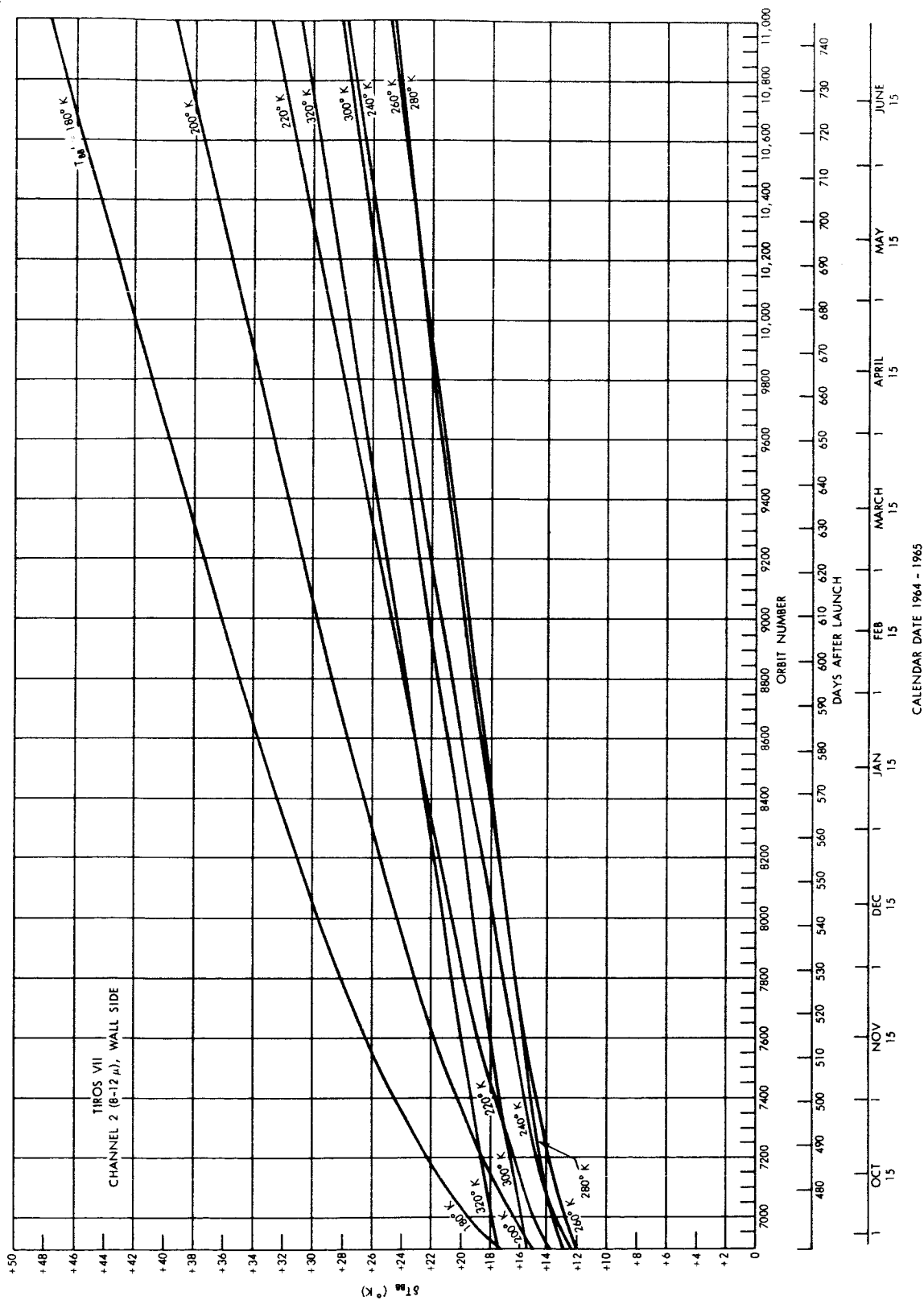


Figure 78b—Temperature corrections δT_{BB} vs. orbit number, channel 2, wall side. An equivalent blackbody temperature measurement, T'_{BB} , should be corrected by adding the δT_{BB} value corresponding to the appropriate orbit number. (δT_{BB} contains both symmetric and asymmetric components.)

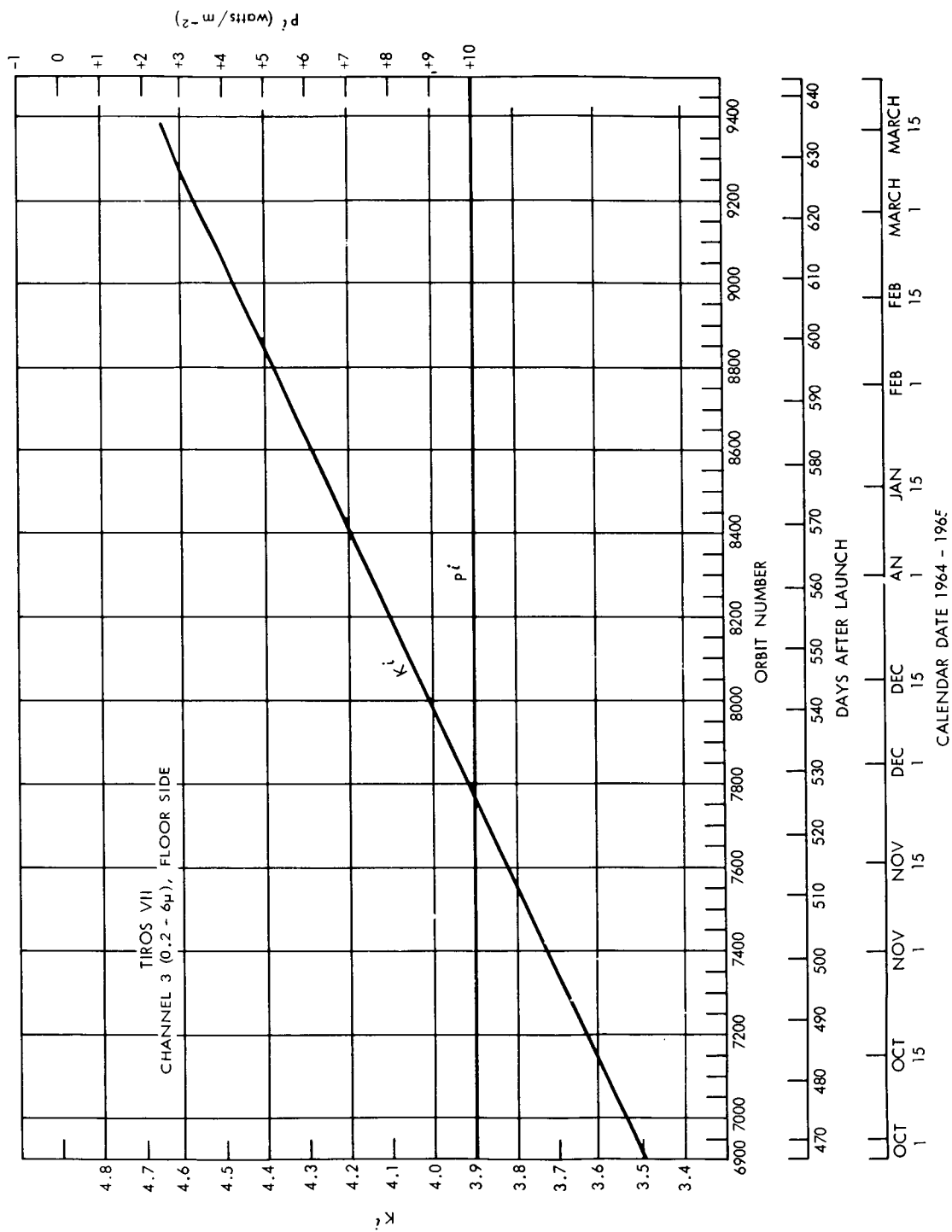


Figure 80—Normalizing parameters κ_i and ρ_i for channel 3. A measurement \bar{W}' should be corrected to yield \bar{W} by means of the equation $\bar{W} = \kappa_i (\bar{W}' + \rho_i)$.

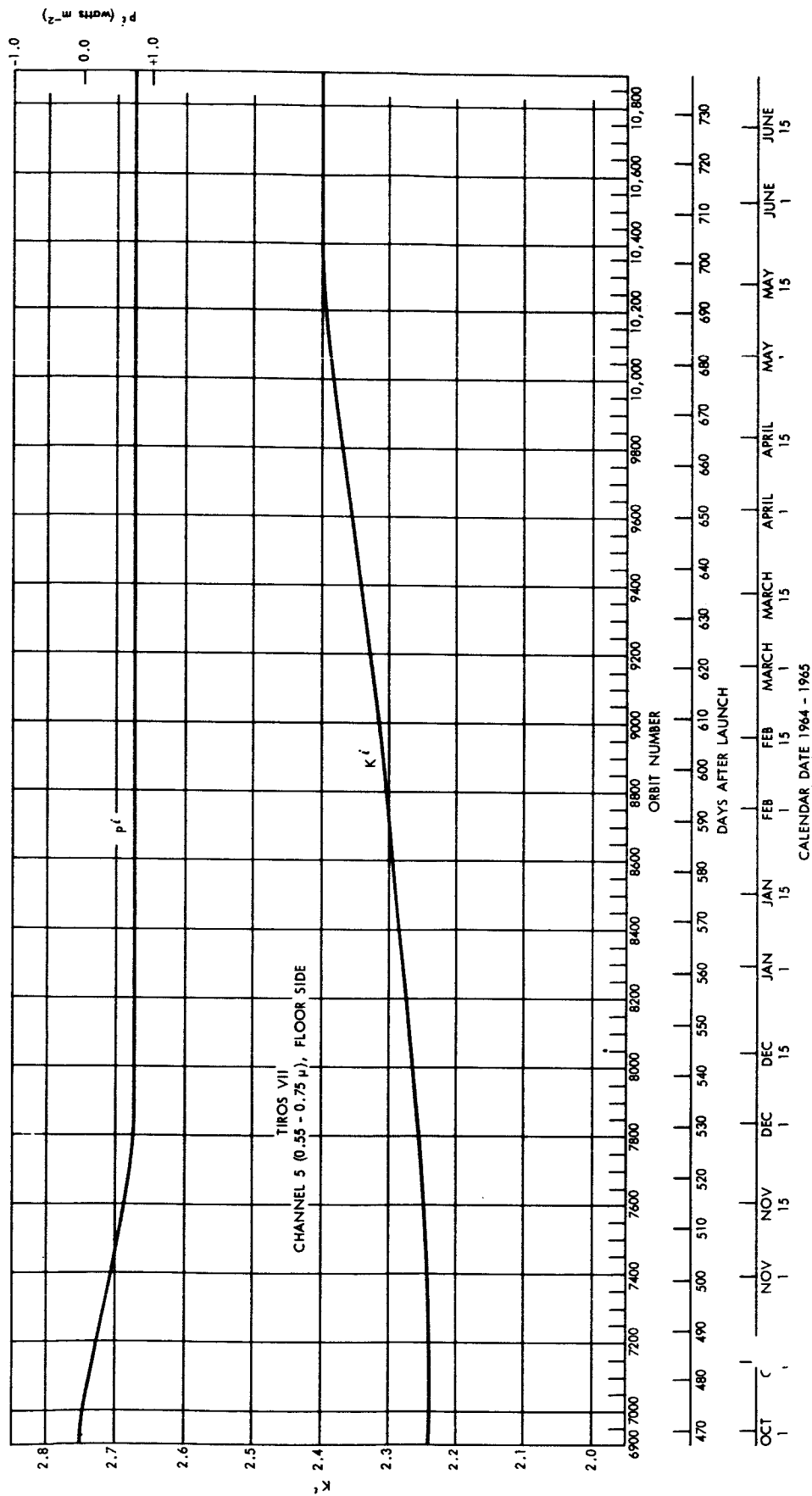


Figure 81—Normalizing parameters κ^1 and ρ^1 for channel 5. A measurement \bar{W} should be corrected to yield W by means of the equation $W = \kappa^1(W' + \rho^1)$.

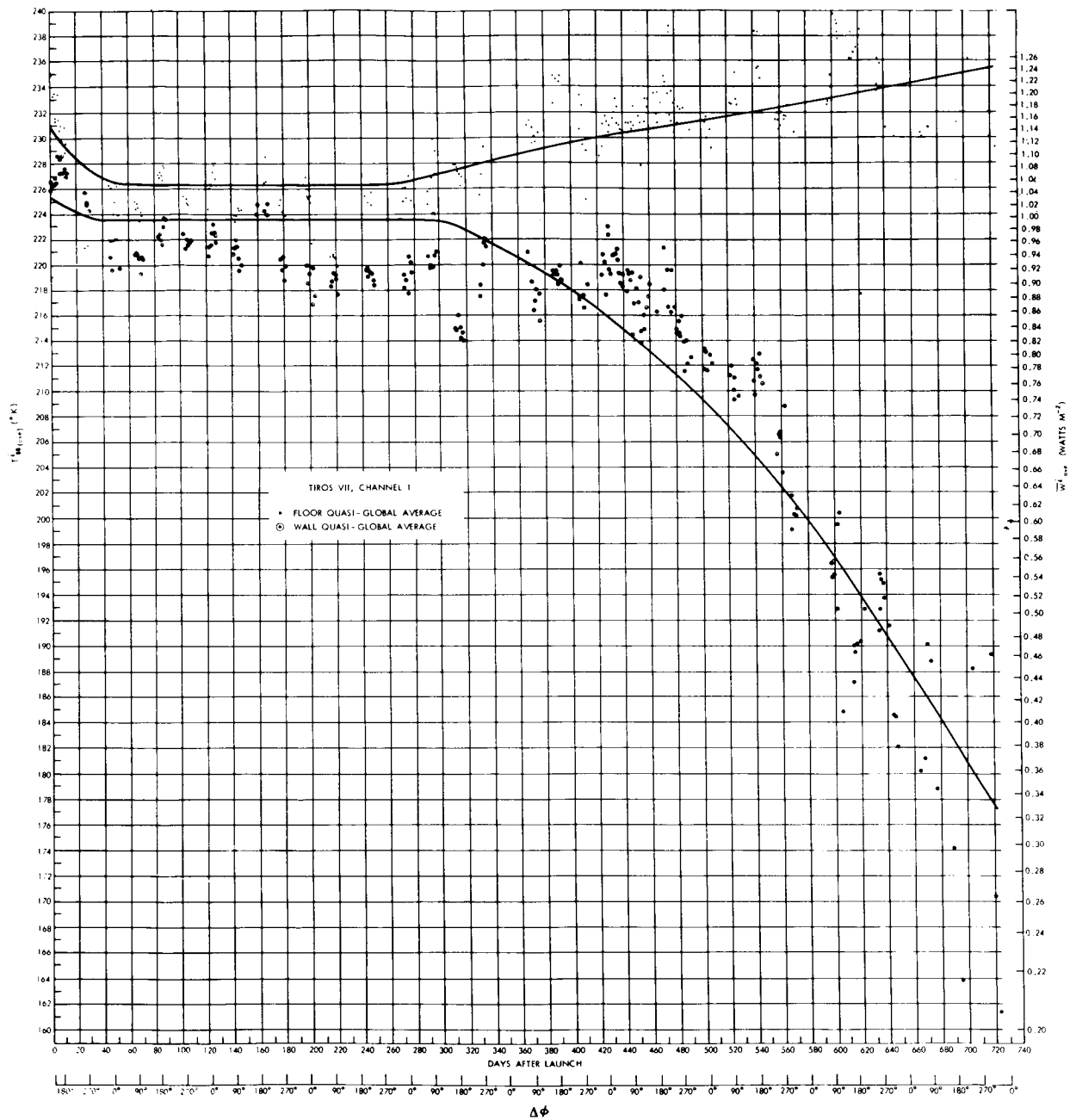


Figure 83—The average floor and wall quasi-global T_{BB}^i and \bar{W}^i values for channel 1 in latitude range 70° N to 70° S vs. days after launch.

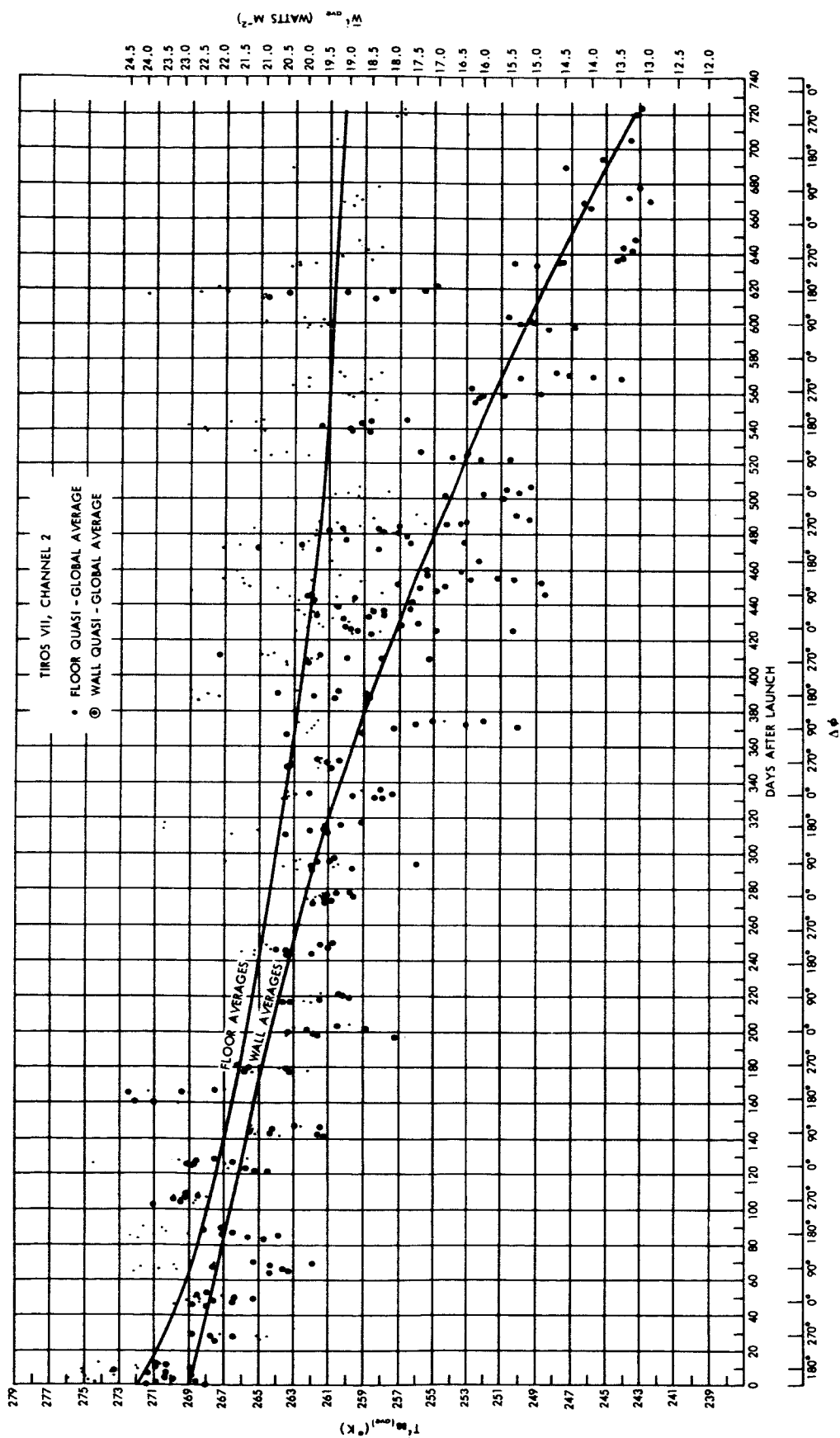


Figure 84—The average floor and wall quasi-global T^1_{88} and W^1_{88} values for channel 2 in latitude range 70° N to 70° S vs. days after launch.

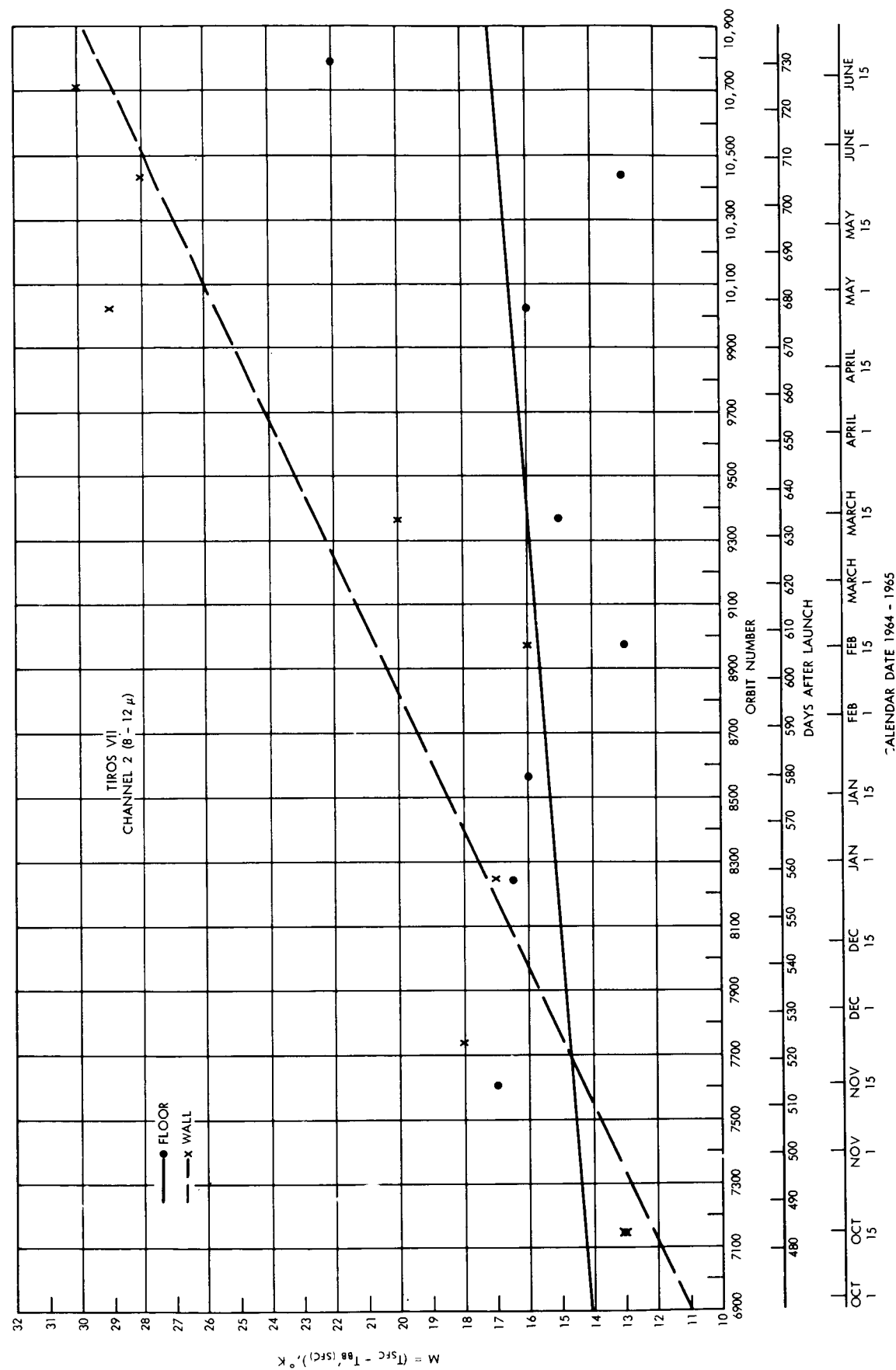


Figure 89—Deviations of channel 2 floor and wall measurements of surface temperatures (adjusted for atmospheric absorption), $T_{atm}(sfc)$, from assumed surface temperatures from an oceanographic atlas, T_{sfc} , vs. orbit number. Measurements were made over clear sky equatorial oceanic regions. Values of M tend to corroborate Figures 78a and b.

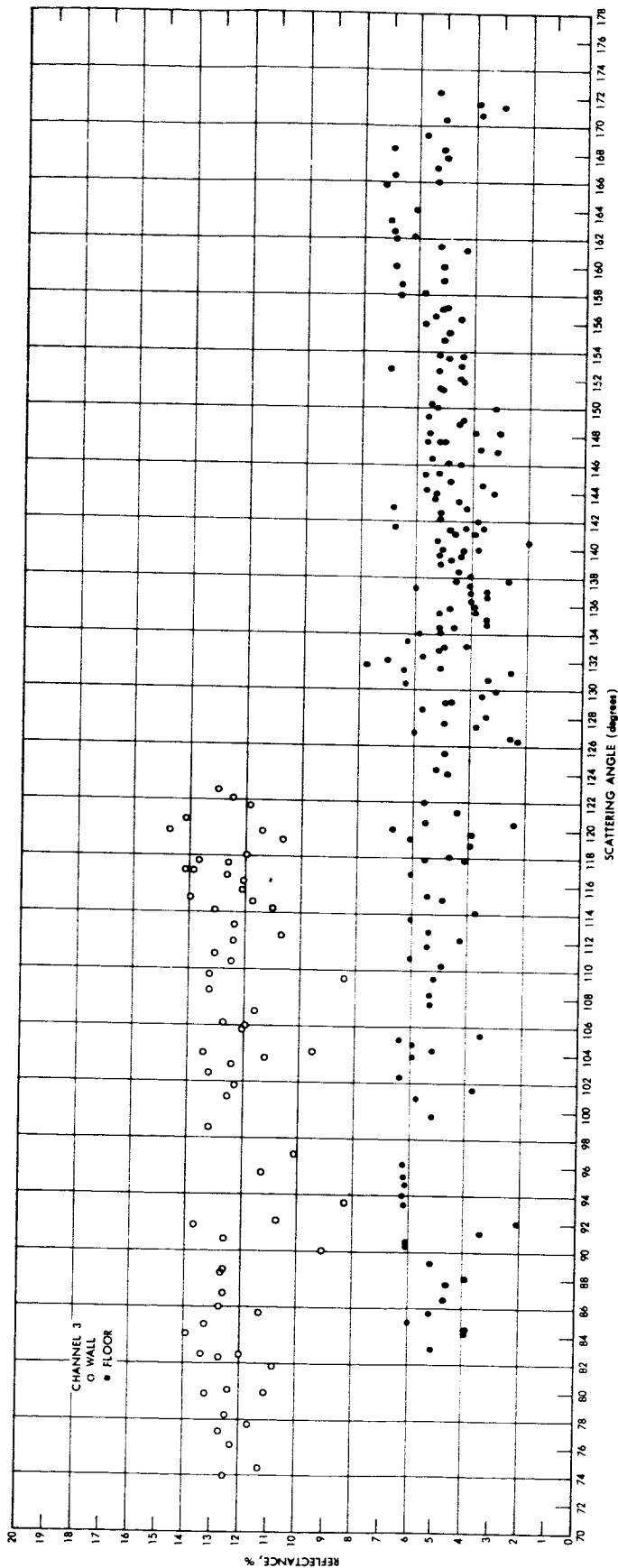


Figure 90a—Channel 3 floor and wall Sahara measurements vs. scattering angle ϕ (i.e., the angle between a ray of scattered radiation and the direction in which the incident radiation was advancing). The floor measurements are for February 10-13, 1965. During February 15-22, 1965, the satellite experienced a 105° torquing maneuver, resulting in a geometry which made possible daytime wall measurements over the Sahara Desert. The wall measurements are for February 23-28, 1965.

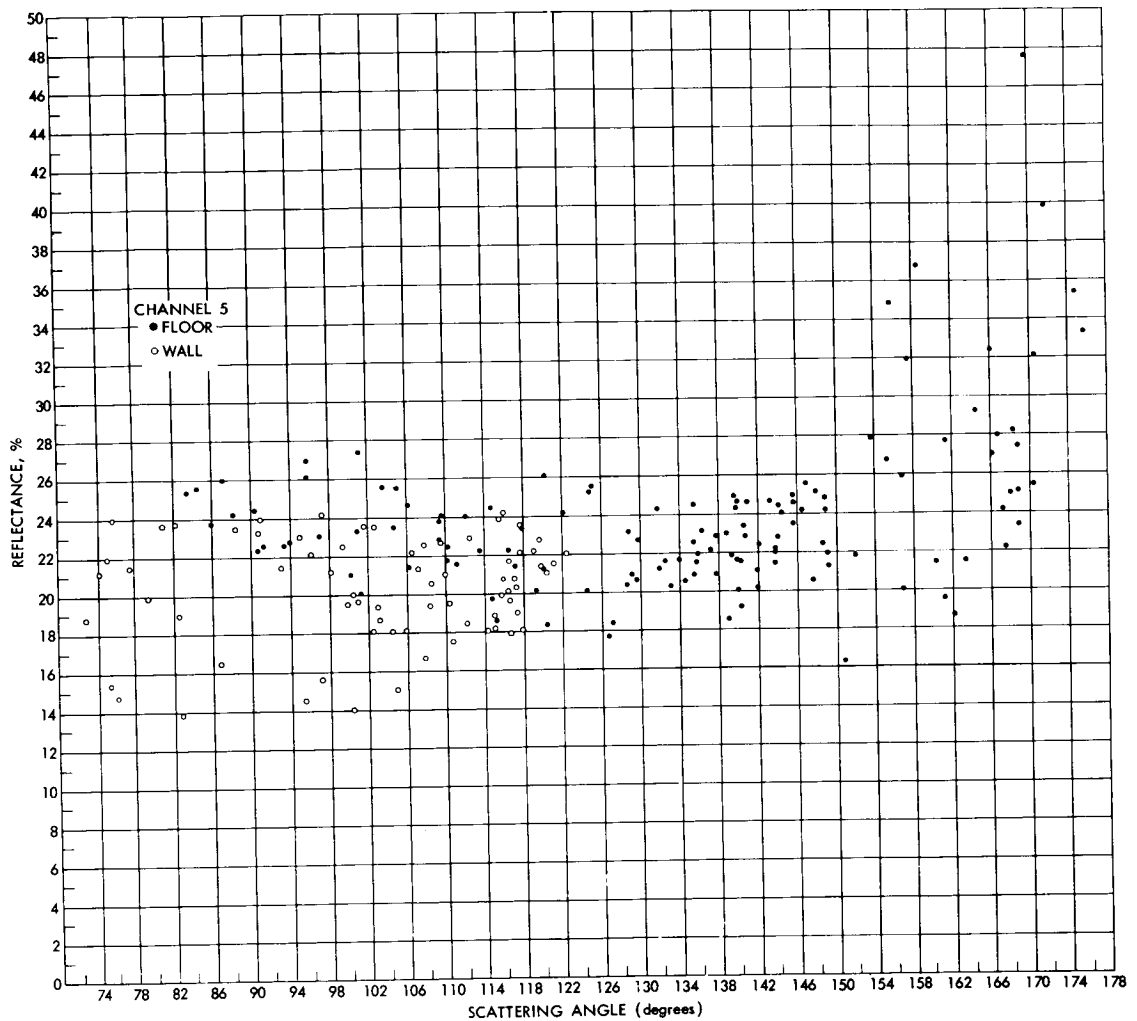


Figure 90b—Channel 5 floor and wall Sahara measurements vs. scattering angle ϕ (i.e., the angle between a ray of scattered radiation and the direction in which the incident radiation was advancing). The floor measurements are for February 10-13, 1965. During February 15-22, 1965, the satellite experienced a 105° torquing maneuver, resulting in a geometry which made possible daytime wall measurements over the Sahara Desert. The wall measurements are for February 23-28, 1965.

APPENDIX A
INDEX OF FINAL METEOROLOGICAL
RADIATION TAPES

Two hundred thirty-four tapes, containing data from 764 individual orbits of TIROS VII from October 1, 1964 to June 19, 1965, are tabulated on the following pages. The FMR tapes from this period are numbered from 789 to 1023. The nomenclature used in the Index and an example illustrating the use of the Index is given in Appendix A, Volume 1.

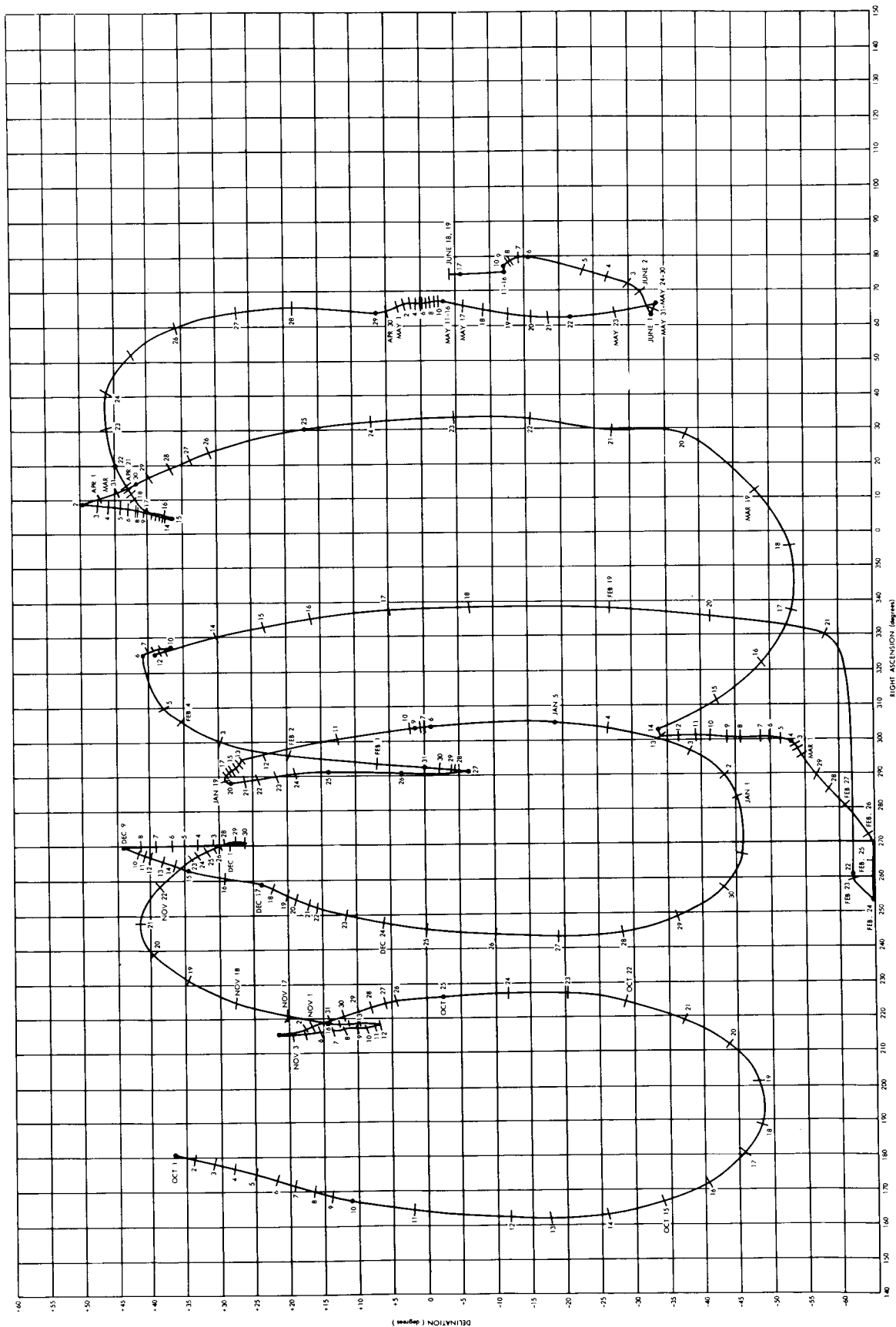


Figure A1—Observed motion of the TIROS VII spin vector on the celestial sphere.
Each subdivision represents one day. Positions at 12 GMT each day are indicated.

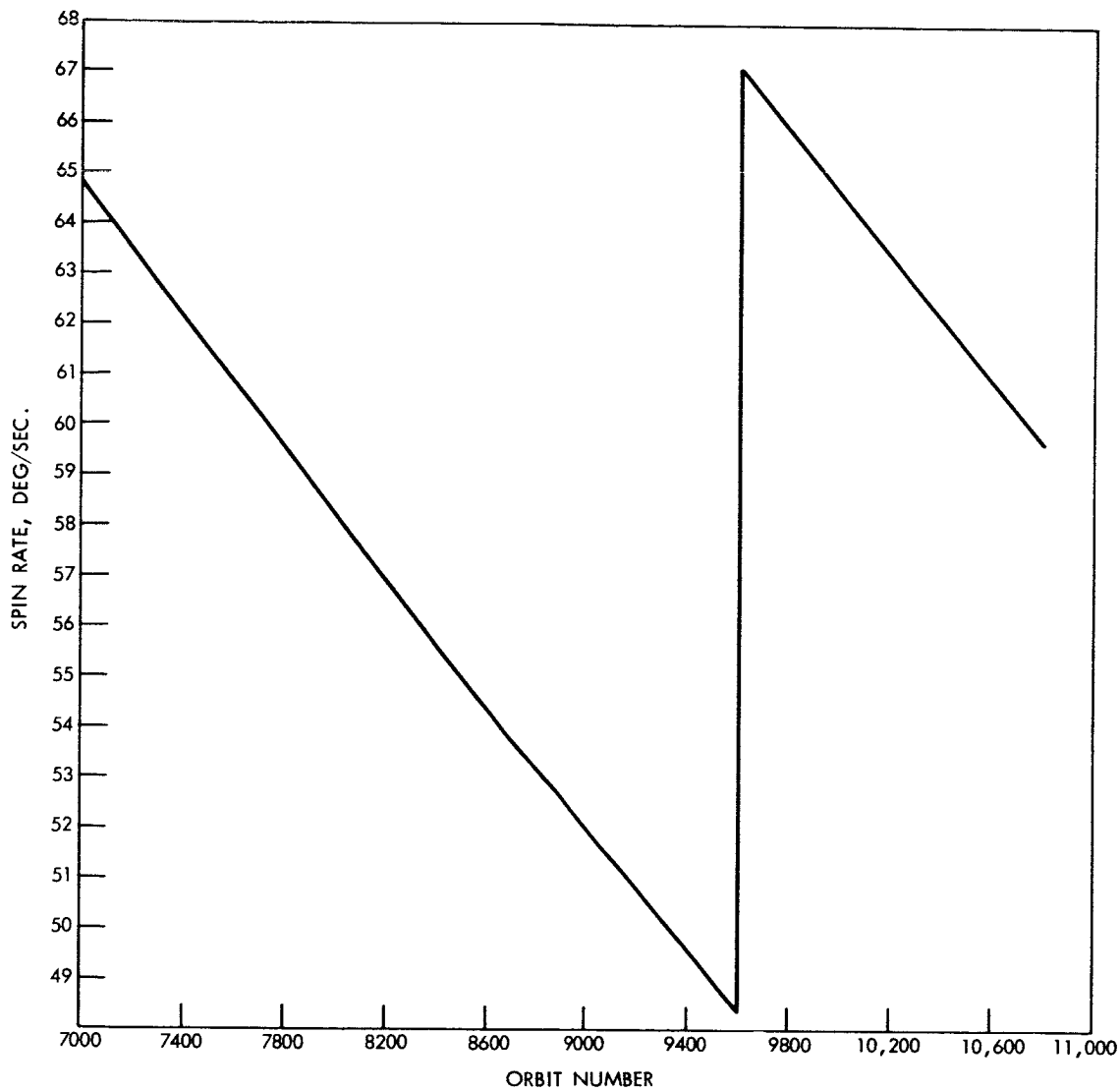


Figure A2—Time history of the TIROS VII spin rate.

| READOUT | | | | | | | | | | | | | | | ORBIT | | | | | | | | | | TIME INTERVAL OF FILE ON FMR TAPE | | | | | | | | | | FMR TAPE REEL NO. |
|--------------|-----|---|----------|----------------------------------|-----|--------------------------------|-------|--------------------|-------|-----------------------------|--------|-------------------------|----------|------------------------|-----------------------------------|-------------------------------|--|---|--|------------------------------|--|--------------|--|--|-----------------------------------|--|--|--|--|--|--|--|--|--|----------------------------|
| ORBIT NO. | CDA | SATellite EQUATOR CROSSING AT | | | | SPIN VECTOR ATTITUDE | | | BEGIN | | | E N D | | | DROPOUTS, MINUTES W/R/T AND | | | | | | | | | | | | | | | | | | | | |
| | | SATELLITE ORBITAL LONGI- TUD E | | EQUATOR ASCENDING CALENDAR | | CROSSING NODE (ANO) DATE | | AT TIROS DAY | | DECLI -NA -TION (DEG) | | RIGHT -SION (DEG) | | MINI -MADR (DEG) | | TOT (MIN. AFTER ANO) | | MINU -YES MINUTES SECONDS (GMT) | | MINU -YES W/R/T ANO | | TO- FROM- | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6565 | 2 | 114.60 | 14*34*33 | 10/ 2/64 | 471 | | 33.0 | 179.0 | -27.7 | 42.3 | 65.152 | -56.6 | 15* 8* 3 | 33.5 | 789 | | | | | | | | | | | | | | | | | | | | |
| 6576 | 2 | -132.10 | 6*48*34 | 10/ 3/64 | 472 | | 30.8 | 178.1 | -28.2 | 43.1 | 65.071 | -58.2 | 6*59* 3 | 10.5 | 790 | | | | | | | | | | | | | | | | | | | | |
| 6579 | 1 | 153.88 | 11*40*47 | 10/ 3/64 | 472 | | 30.4 | 177.6 | -28.3 | 43.2 | 65.046 | 6.2 | 12*14* 3 | 33.3 | 790 | | | | | | | | | | | | | | | | | | | | |
| 7006 | 2 | -152.24 | 7*30*38 | 10/ 5/64 | 474 | | 25.0 | 174.8 | -29.6 | 45.2 | 64.827 | -58.9 | 7*41* 3 | 10.4 | 791 | | | | | | | | | | | | | | | | | | | | |
| 7021 | 2 | -162.31 | 7*51*40 | 10/ 6/64 | 475 | | 22.2 | 173.2 | -30.2 | 46.2 | 64.705 | -75.8 | 8* 5* 3 | 13.4 | 792 | | | | | | | | | | | | | | | | | | | | |
| 7023 | 1 | 148.34 | 11* 6*28 | 10/ 6/64 | 475 | | 21.9 | 172.9 | -30.3 | 46.3 | 64.689 | 9.0 | 11*40* 3 | 33.6 | 792 | | | | | | | | | | | | | | | | | | | | |
| 7024 | 1 | 123.60 | 12*43*52 | 10/ 6/64 | 475 | | 21.7 | 172.8 | -30.3 | 46.4 | 64.681 | 27.9 | 13*22* 3 | 38.2 | 792 | | | | | | | | | | | | | | | | | | | | |
| 7025 | 2 | 58.99 | 14*21*16 | 10/ 6/64 | 475 | | 21.5 | 172.8 | -30.4 | 46.5 | 64.673 | -45.9 | 14*56* 3 | 34.8 | 792 | | | | | | | | | | | | | | | | | | | | |
| 7038 | 1 | 138.27 | 11*27*30 | 10/ 7/64 | 476 | | 19.1 | 171.4 | -31.0 | 47.4 | 64.568 | 23.8 | 12* 2* 3 | 34.6 | 793 | | | | | | | | | | | | | | | | | | | | |
| 7040 | 2 | 68.93 | 14*42*18 | 10/ 7/64 | 476 | | 18.7 | 171.2 | -31.1 | 47.6 | 64.552 | -61.3 | 15*19* 3 | 36.8 | 793 | | | | | | | | | | | | | | | | | | | | |
| 7050 | 2 | -157.77 | 6*56*19 | 10/ 8/64 | 477 | | 16.8 | 170.2 | -31.6 | 48.4 | 64.473 | -53.5 | 7* 8* 3 | 11.7 | 794 | | | | | | | | | | | | | | | | | | | | |
| 7053 | 1 | 128.20 | 11*48*32 | 10/ 8/64 | 477 | | 16.4 | 169.8 | -31.6 | 48.5 | 64.449 | 1.4 | 12*25* 3 | 36.5 | 794 | | | | | | | | | | | | | | | | | | | | |
| 7079 | 2 | -153.24 | 6* 0*58 | 10/10/64 | 479 | | 11.7 | 167.3 | -32.9 | 50.4 | 64.247 | -51.3 | 6*11*33 | 10.6 | 795 | | | | | | | | | | | | | | | | | | | | |
| 7082 | 1 | 122.74 | 10*53*10 | 10/10/64 | 479 | | 11.3 | 166.9 | -32.9 | 50.6 | 64.224 | -49.7 | 11*28* 3 | 34.9 | 795 | | | | | | | | | | | | | | | | | | | | |
| 7084 | 2 | 83.40 | 14* 7*59 | 10/10/64 | 479 | | 10.1 | 166.8 | -32.9 | 50.8 | 64.209 | -39.2 | 14*46* 3 | 38.1 | 795 | | | | | | | | | | | | | | | | | | | | |
| 7106 | 1 | -59.36 | 1*50*50 | 10/12/64 | 481 | | -4.5 | 163.4 | -26.4 | 55.1 | 64.045 | -60.4 | 2* 0* 3 | 9.2 | 796 | | | | | | | | | | | | | | | | | | | | |
| 7111 | 1 | 127.28 | 9*57*51 | 10/12/64 | 481 | | -7.2 | 161.9 | -24.6 | 55.6 | 64.009 | -31.8 | 10*32* 3 | 34.2 | 796 | | | | | | | | | | | | | | | | | | | | |
| 7120 | 1 | -84.75 | 0*34*28 | 10/13/64 | 482 | | -13.6 | 162.3 | -22.2 | 57.5 | 63.944 | -90.0 | 0*43* 3 | 8.6 | 797 | | | | | | | | | | | | | | | | | | | | |
| 7123 | 2 | -158.84 | 5*26*40 | 10/13/64 | 482 | | -15.2 | 161.7 | -21.3 | 57.9 | 63.923 | -54.4 | 5*39* 3 | 12.4 | 797 | | | | | | | | | | | | | | | | | | | | |
| 7128 | 2 | 77.79 | 13*33*41 | 10/13/64 | 482 | | -18.4 | 161.3 | -19.6 | 58.6 | 63.888 | -38.8 | 14*12* 3 | 38.4 | 798 | | | | | | | | | | | | | | | | | | | | |
| 7137 | 2 | -144.24 | 4*10*18 | 10/14/64 | 483 | | -24.1 | 162.3 | -17.6 | 60.5 | 63.826 | -71.3 | 4*18*33 | 8.3 | 799 | | | | | | | | | | | | | | | | | | | | |
| 7140 | 3 | 141.73 | 9* 2*30 | 10/14/64 | 483 | | -25.6 | 161.9 | -16.7 | 60.9 | 63.806 | -54.7 | 9*22* 3 | 19.6 | 799 | | | | | | | | | | | | | | | | | | | | |
| 7142 | 2 | 52.39 | 12*17*18 | 10/14/64 | 483 | | -27.0 | 162.1 | -16.1 | 61.2 | 63.793 | 7.3 | 12*53* 3 | 35.8 | 799 | | | | | | | | | | | | | | | | | | | | |
| 7149 | 1 | -80.30 | 23*39* 7 | 10/14/64 | 483 | | -31.5 | 164.4 | -14.7 | 62.8 | 63.746 | -89.5 | 23*48* 3 | 8.9 | 800 | | | | | | | | | | | | | | | | | | | | |
| 7150 | 1 | -104.98 | 1*16*31 | 10/15/64 | 484 | | -31.9 | 164.6 | -14.6 | 63.0 | 63.740 | -78.3 | 1*27* 3 | 10.5 | 800 | | | | | | | | | | | | | | | | | | | | |
| 7152 | 2 | -154.32 | 4*31*19 | 10/15/64 | 484 | | -32.8 | 164.6 | -14.2 | 63.3 | 63.727 | -64.9 | 4*42* 3 | 10.7 | 800 | | | | | | | | | | | | | | | | | | | | |

| READOUT | | | | | | | | | | ORBIT | | | | | | | | | | TIME INTERVAL OF FILE ON FMR TAPE | | | | | |
|-----------|---------|-------------------|-----------------------------|---------------|---------------------|-----------------------|-------------------------|-----------------------|----------------------|---------------------|-----------------------------|---------------------|-----------|----------------------|-------|-------|--|--|-------------------|-----------------------------------|-------------------|--|--|--|--|
| ORBIT NO. | CUA STA | SATELLITE ORBITAL | | | EQUATOR CROSSING AT | | | SPIN VECTOR | | | ATTITUDE | | | SPIN RATE (DEG /SEC) | BEGIN | E N D | | | DROPOUTS, MINUTES | | FMR TAPE REEL NO. | | | | |
| | | LONGI (DEG) | HOURS MINUTES SECONDS (GMT) | CALENDAR DATE | TIRS DAY | DECLI -NA -TION (DEG) | RIGHT ASCEN -SION (DEG) | MINI -MUM NADIR (DEG) | TOT (MIN. AFTER AND) | MINU -TES W/R/T AND | HOURS MINUTES SECONDS (GMT) | MINU -TES W/R/T AND | FROM- TO- | | | | | | | | | | | | |
| 7155 | 1 | 131.65 | 9*23*32 | 10/15/64 | 484 | -34.3 | 164.6 | -13.5 | 63.7 | 63.707 | -52.3 | 9*59*3 | 35.5 | | | | | | | 800 | | | | | |
| 7157 | 2 | 82.31 | 12*38*20 | 10/15/64 | 484 | -35.6 | 165.2 | -12.9 | 64.0 | 63.694 | -39.9 | 13*15*3 | 36.7 | | | | | | | 800 | | | | | |
| 7164 | 1 | -90.38 | 0* 0* 8 | 10/16/64 | 485 | -39.4 | 168.9 | -11.9 | 65.5 | 63.650 | -89.0 | 0* 9*3 | 8.9 | | | | | | | 801 | | | | | |
| 7165 | 1 | -115.05 | 1*37*32 | 10/16/64 | 485 | -39.7 | 169.2 | -11.8 | 65.7 | 63.644 | -77.3 | 1*50*3 | 12.5 | | | | | | | 801 | | | | | |
| 7167 | 2 | -164.39 | 4*52*21 | 10/16/64 | 485 | -40.4 | 169.6 | -11.5 | 66.0 | 63.631 | -62.8 | 5* 6*3 | 13.7 | | | | | | | 801 | | | | | |
| 7169 | 1 | 146.25 | 8* 7* 9 | 10/16/64 | 485 | -41.2 | 169.9 | -11.2 | 66.3 | 63.619 | -60.8 | 8*40*3 | 32.9 | | | | | | | 801 | | | | | |
| 7171 | 2 | 56.91 | 11*21*57 | 10/16/64 | 485 | -42.3 | 170.6 | -10.7 | 66.5 | 63.607 | -41.8 | 11*57*3 | 35.1 | | | | | | | 801 | | | | | |
| 7181 | 2 | -149.79 | 3*35*58 | 10/17/64 | 486 | -46.0 | 177.5 | -9.7 | 68.7 | 63.547 | -13.3 | 3*45*3 | 9.1 | | | | | | | 802 | | | | | |
| 7185 | 2 | 111.51 | 10* 5*35 | 10/17/64 | 486 | -47.3 | 179.0 | -9.2 | 69.3 | 63.524 | -42.3 | 10*39*3 | 33.5 | | | | | | | 802 | | | | | |
| 7186 | 2 | 86.83 | 11*42*59 | 10/17/64 | 486 | -47.7 | 179.9 | -8.9 | 69.5 | 63.518 | -52.7 | 12*18*33 | 35.6 | | | | | | | 802 | | | | | |
| 7193 | 1 | -85.86 | 23* 4*48 | 10/17/64 | 486 | -49.2 | 186.8 | -8.5 | 71.1 | 63.478 | -60.2 | 23*13*3 | 8.3 | | | | | | | 803 | | | | | |
| 7194 | 1 | -110.53 | 0*42*12 | 10/18/64 | 487 | -49.2 | 187.5 | -8.6 | 71.3 | 63.473 | -76.4 | 0*53*3 | 10.9 | | | | | | | 803 | | | | | |
| 7195 | 2 | -135.20 | 2*19*36 | 10/18/64 | 487 | -49.2 | 188.1 | -8.6 | 71.5 | 63.467 | -74.6 | 2*27*3 | 7.5 | | | | | | | 803 | | | | | |
| 7201 | 2 | 76.76 | 12* 4* 1 | 10/18/64 | 487 | -50.2 | 192.0 | -8.1 | 72.4 | 63.434 | -21.3 | 12*42*33 | 38.5 | | | | | | | 803 | | | | | |
| 7208 | 1 | -55.93 | 23*25*47 | 10/18/64 | 487 | -49.7 | 199.4 | -8.1 | 74.2 | 63.397 | -38.5 | 23*35*3 | 9.3 | | | | | | | 804 | | | | | |
| 7209 | 1 | -120.60 | 1* 3*13 | 10/19/64 | 488 | -49.5 | 200.1 | -8.3 | 74.3 | 63.392 | -74.7 | 1*17*3 | 13.8 | | | | | | | 804 | | | | | |
| 7210 | 2 | -145.28 | 2*40*38 | 10/19/64 | 488 | -49.3 | 200.6 | -8.4 | 74.4 | 63.387 | -37.7 | 2*50*3 | 9.4 | | | | | | | 804 | | | | | |
| 7215 | 2 | 91.36 | 10*47*38 | 10/19/64 | 488 | -49.1 | 203.8 | -8.4 | 75.2 | 63.362 | -28.5 | 11*23*33 | 35.9 | | | | | | | 804 | | | | | |
| 7223 | 1 | -106.00 | 23*46*51 | 10/19/64 | 488 | -46.5 | 211.3 | -8.9 | 77.0 | 63.334 | -78.9 | 23*58*3 | 11.2 | | | | | | | 805 | | | | | |
| 7224 | 2 | -130.67 | 1*24*15 | 10/20/64 | 489 | -46.1 | 211.7 | -9.2 | 77.2 | 63.327 | -72.5 | 1*32*3 | 7.8 | | | | | | | 805 | | | | | |
| 7230 | 2 | 81.36 | 11* 8*40 | 10/20/64 | 489 | -44.6 | 214.7 | -9.6 | 78.1 | 63.285 | -30.4 | 11*45*33 | 36.9 | | | | | | | 805 | | | | | |
| 7238 | 1 | -116.00 | 0* 7*53 | 10/21/64 | 490 | -40.4 | 219.9 | -10.7 | 80.0 | 63.228 | -74.0 | 0*24*3 | 16.2 | | | | | | | 806 | | | | | |
| 7244 | 3 | 55.96 | 9*52*17 | 10/21/64 | 490 | -38.1 | 221.5 | -11.8 | 80.9 | 63.187 | -33.0 | 10*18*33 | 26.3 | | | | | | | 806 | | | | | |
| 7259 | 2 | 85.89 | 10*13*19 | 10/22/64 | 491 | -29.5 | 225.8 | -14.7 | 83.8 | 63.082 | -62.2 | 10*49*33 | 36.2 | | | | | | | 807 | | | | | |
| 7267 | 1 | -111.46 | 23*12*31 | 10/22/64 | 491 | -23.7 | 227.6 | -16.5 | 85.7 | 63.027 | -74.2 | 23*25*3 | 12.5 | | | | | | | 808 | | | | | |
| 7268 | 2 | -136.14 | 0*49*50 | 10/23/64 | 492 | -23.0 | 227.5 | -16.9 | 85.8 | 63.020 | -71.5 | 0*58*3 | 8.1 | | | | | | | 808 | | | | | |

ORBIT

| READOUT | | | | | | | | | | ORBIT | | | | TIME INTERVAL OF FILE ON FMR TAPE | | | | | | | | | | FMR TAPE REFL NO. |
|--------------|------------|----------------------------------|------------------------------------|----------------------|--------------|--------------------------------|----------------------------------|--------------------------------|-------------------------------|-------------------------------|---|------------------------------|---|---------------------------------------|-------------|--|-----------------------------------|--|--------------|--|--|--|--|----------------------------|
| ORBIT No. | CUA STA | SATELLITE ORBITAL | | EQUATOR ASCENDING | | CROSSING AT NODE (AND) | | SPIN | | VECTOR | | ATTITUDE | | BEGIN MINU -TES W/R/T AND | E N D | | DROPOUTS, MINUTES W/R/T AND | | TO- FROM- | | | | | |
| | | EARTH LONGI -TIDE (DEG) | HOURS MINUTES -TIDE (GMT) | CALENDAR DATE | TIRUS DAY | DECLI -NA -TION (DEG) | RIGHT ASCEN -SION (DEG) | MINI -MUM NADIR (DEG) | TOT (MIN. AFTER AND) | SPIN RATE (DEG /SEC) | HOURS MINUTES -TIDE W/R/T (GMT) | MINU -TES W/R/T AND | HOURS MINUTES -TIDE W/R/T AND | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| 7371 | 2 | -157.34 | 0* 2*18 | 10/30/64 | 499 | 11.3 | 221.0 | -23.1 | 97.2 | 62.338 | -61.5 | 0*14*33 | 12.3 | | | | | | 815 | | | | | |
| 7373 | 3 | 153.30 | 3*17* 6 | 10/30/64 | 499 | 11.5 | 220.8 | -23.0 | 97.3 | 62.326 | -62.3 | 3*36*33 | 19.5 | | | | | | 815 | | | | | |
| 7374 | 3 | 128.63 | 4*54*30 | 10/30/64 | 499 | 11.6 | 220.8 | -22.9 | 97.3 | 62.319 | -66.1 | 5*16*33 | 22.1 | | | | | | 815 | | | | | |
| 7376 | 2 | 79.29 | 8* 9*18 | 10/31/64 | 499 | 11.8 | 220.7 | -22.6 | 97.4 | 62.307 | -51.9 | 8*47*33 | 38.3 | | | | | | 815 | | | | | |
| 7383 | 1 | -53.40 | 19*31* 7 | 10/30/64 | 499 | 12.7 | 220.3 | -22.1 | 0.4 | 62.262 | -86.5 | 19*41* 3 | 9.9 | | | | | | 816 | | | | | |
| 7385 | 2 | -142.74 | 22*45*55 | 10/30/64 | 499 | 13.0 | 220.1 | -21.9 | 0.5 | 62.250 | -64.0 | 22*55* 3 | 9.1 | | | | | | 816 | | | | | |
| 7390 | 4 | 93.89 | 6*52*56 | 10/31/64 | 500 | 13.7 | 219.6 | -21.6 | 0.8 | 62.218 | -60.5 | 7*28*33 | 35.6 | | | | | | 816 | | | | | |
| 7398 | 1 | -103.47 | 19*52* 8 | 10/31/64 | 500 | 14.9 | 219.0 | -21.0 | 1.3 | 62.168 | -77.4 | 20* 3* 3 | 10.9 | | | | | | 817 | | | | | |
| 7403 | 3 | 133.16 | 3*59* 9 | 11/ 1/64 | 501 | 15.6 | 218.3 | -20.9 | 1.5 | 62.136 | -51.1 | 4*20*33 | 21.4 | | | | | | 817 | | | | | |
| 7405 | 2 | 63.82 | 7*13*57 | 11/ 1/64 | 501 | 15.9 | 218.2 | -20.7 | 1.6 | 62.124 | -35.0 | 7*50*33 | 36.6 | | | | | | 817 | | | | | |
| 7412 | 1 | -88.87 | 18*35*46 | 11/ 1/64 | 501 | 17.0 | 217.7 | -20.1 | 2.1 | 62.080 | -86.3 | 18*45* 3 | 9.3 | | | | | | 818 | | | | | |
| 7414 | 2 | -138.22 | 21*50*34 | 11/ 1/64 | 501 | 17.3 | 217.3 | -20.0 | 2.2 | 62.068 | -56.5 | 21*59* 3 | 8.5 | | | | | | 818 | | | | | |
| 7417 | 3 | 147.76 | 2*42*46 | 11/ 2/64 | 502 | 17.7 | 217.0 | -19.9 | 2.3 | 62.049 | -67.3 | 3* 3* 3 | 20.3 | | | | | | 818 | | | | | |
| 7418 | 3 | 123.09 | 4*20*10 | 11/ 2/64 | 502 | 17.8 | 216.9 | -19.9 | 2.4 | 62.043 | -63.1 | 4*42*33 | 22.4 | | | | | | 818 | | | | | |
| 7419 | 2 | 98.42 | 5*57*34 | 11/ 2/64 | 502 | 18.0 | 216.9 | -19.8 | 2.5 | 62.037 | -62.5 | 6*31*33 | 34.0 | | | | | | 818 | | | | | |
| 7427 | 1 | -58.94 | 16*56*47 | 11/ 2/64 | 502 | 19.2 | 216.3 | -19.0 | 3.0 | 61.988 | -79.5 | 19* 7* 3 | 10.3 | | | | | | 819 | | | | | |
| 7429 | 2 | -148.29 | 22*11*35 | 11/ 2/64 | 502 | 19.5 | 216.0 | -19.0 | 3.1 | 61.976 | -63.0 | 22*22* 3 | 10.5 | | | | | | 819 | | | | | |
| 7431 | 3 | 162.35 | 1*26*23 | 11/ 3/64 | 503 | 19.8 | 215.7 | -19.0 | 3.2 | 61.963 | -62.0 | 1*45*33 | 19.2 | | | | | | 819 | | | | | |
| 7432 | 3 | 137.68 | 3* 3*47 | 11/ 3/64 | 503 | 19.9 | 215.6 | -18.9 | 3.2 | 61.957 | -65.0 | 3*24*33 | 20.8 | | | | | | 819 | | | | | |
| 7433 | 3 | 113.01 | 4*41*12 | 11/ 3/64 | 503 | 20.1 | 215.6 | -18.8 | 3.3 | 61.951 | -64.9 | 5* 4*33 | 23.4 | | | | | | 819 | | | | | |
| 7434 | 2 | 86.34 | 6*18*36 | 11/ 3/64 | 503 | 20.2 | 215.6 | -18.7 | 3.4 | 61.945 | -48.4 | 6*54*33 | 36.0 | | | | | | 819 | | | | | |
| 7443 | 2 | -133.70 | 20*55*12 | 11/ 3/64 | 503 | 21.2 | 215.1 | -17.9 | 3.9 | 61.890 | -77.9 | 21* 3* 3 | 7.9 | | | | | | 820 | | | | | |
| 7446 | 3 | 152.24 | 1*47*25 | 11/ 4/64 | 504 | 20.8 | 215.3 | -16.9 | 3.9 | 61.872 | -54.4 | 2* 7*33 | 20.1 | | | | | | 820 | | | | | |
| 7447 | 3 | 127.61 | 3*24*49 | 11/ 4/64 | 504 | 20.7 | 215.3 | -16.6 | 3.9 | 61.866 | -65.2 | 3*46*33 | 21.7 | | | | | | 820 | | | | | |
| 7449 | 2 | 78.27 | 6*39*37 | 11/ 4/64 | 504 | 20.4 | 215.3 | -16.1 | 3.9 | 61.854 | -51.2 | 7*17*33 | 37.9 | | | | | | 820 | | | | | |
| 7456 | 1 | -94.42 | 18* 1*26 | 11/ 4/64 | 504 | 19.2 | 215.3 | -14.0 | 3.9 | 61.812 | -86.5 | 18*11*33 | 10.1 | | | | | | 821 | | | | | |

| READOUT | | | | | | | | | | ORBIT | | | | TIME INTERVAL OF FILE ON FMR TAPE | | | | | | FMR TAPE REEL NO. |
|--------------|------------|--|-------------------------------|--------------|--------------------------------|----------------------------------|-------------------------|-------------------------------|-------|-------------------------------|------------------------------|--------------------------------------|-----------------------------------|-----------------------------------|--|-----|--|--|--|----------------------------|
| ORBIT NO. | CDA STA | SATELLITE EQUATOR CROSSING AT | | | SPIN VECTOR | | ATTITUDE | | BEGIN | E N D | | | DROPOUTS, MINUTES W/R/T AND | | | | | | | |
| | | CRAITAL EARTH LONGI TUDE (DEG) | ASCENDING CALENDAR DATE | TIROS DAY | DECLI -NA -TION (DEG) | RIGHT ASCEN -SION (DEG) | MINI -NADIR (DEG) | TOT (MIN. AFTER AND) | | SPIN RATE IDEG /SEC) | MINU -TES W/R/T AND | HOURS MINUTES SECONDS (GMT) | MINU -TES W/R/T AND | FROM- TO- | | | | | | |
| 7461 | 3 | 142.21 | 2* 8*26 | 11/ 5/64 | 505 | 18.5 | 215.5 | -12.4 | 3.9 | 61.782 | -30.2 | 2*29*33 | 21.1 | | | 821 | | | | |
| 7475 | 3 | 156.81 | 0*52* 3 | 11/ 6/64 | 506 | 16.4 | 215.9 | -8.2 | 3.9 | 61.698 | -50.6 | 1*12* 3 | 20.0 | | | 822 | | | | |
| 7477 | 3 | 107.47 | 4* 6*51 | 11/ 6/64 | 506 | 16.1 | 215.9 | -7.6 | 3.9 | 61.686 | -54.4 | 4*31* 3 | 24.2 | | | 822 | | | | |
| 7465 | 1 | -89.89 | 17* 6* 4 | 11/ 6/64 | 506 | 14.9 | 216.0 | -5.2 | 3.9 | 61.639 | -89.3 | 17*14*33 | 8.5 | | | 823 | | | | |
| 7490 | 3 | 146.75 | 1*13* 5 | 11/ 7/64 | 507 | 14.3 | 216.3 | -3.6 | 4.0 | 61.610 | -16.8 | 1*33* 3 | 20.0 | | | 823 | | | | |
| 7492 | 2 | 57.40 | 4*27*53 | 11/ 7/64 | 507 | 14.0 | 216.4 | -3.0 | 4.0 | 61.598 | -53.7 | 5* 2* 3 | 34.2 | | | 823 | | | | |
| 7500 | 1 | -99.96 | 17*27* 5 | 11/ 7/64 | 507 | 12.9 | 216.5 | -0.6 | 4.0 | 61.551 | -79.1 | 17*38* 3 | 11.0 | | | 824 | | | | |
| 7502 | 2 | -149.30 | 20*41*54 | 11/ 7/64 | 507 | 12.7 | 216.6 | 0.1 | 4.1 | 61.539 | -63.2 | 20*52* 3 | 10.2 | | | 824 | | | | |
| 7504 | 3 | 161.35 | 23*56*42 | 11/ 7/64 | 507 | 12.5 | 216.8 | 0.7 | 4.1 | 61.528 | -63.9 | 0*15* 3 | 18.4 | | | 824 | | | | |
| 7507 | 2 | 87.33 | 4*48*54 | 11/ 8/64 | 508 | 12.1 | 216.9 | 1.6 | 4.2 | 61.510 | -45.3 | 5*25* 3 | 36.2 | | | 824 | | | | |
| 7516 | 2 | -134.70 | 19*25*31 | 11/ 8/64 | 508 | 11.0 | 217.1 | 4.3 | 4.3 | 61.458 | -69.9 | 19*34* 3 | 8.5 | | | 825 | | | | |
| 7519 | 1 | 151.28 | 0*17*43 | 11/ 9/64 | 509 | 10.7 | 217.3 | 5.2 | 4.4 | 61.441 | -40.4 | 0*37*33 | 19.8 | | | 825 | | | | |
| 7522 | 2 | 77.26 | 5* 9*55 | 11/ 9/64 | 509 | 10.3 | 217.4 | 6.2 | 4.4 | 61.424 | -27.7 | 5*47*33 | 37.6 | | | 825 | | | | |
| 7529 | 1 | -95.43 | 16*31*44 | 11/ 9/64 | 509 | 9.5 | 217.6 | 8.2 | 4.5 | 61.384 | -87.1 | 16*42* 3 | 10.3 | | | 826 | | | | |
| 7531 | 2 | -144.76 | 19*46*32 | 11/ 9/64 | 509 | 9.3 | 217.7 | 8.8 | 4.6 | 61.372 | -63.5 | 19*56* 3 | 9.5 | | | 826 | | | | |
| 7536 | 2 | 91.85 | 3*53*32 | 11/10/64 | 510 | 8.8 | 218.0 | 10.4 | 4.7 | 61.344 | -58.0 | 4*29* 3 | 35.5 | | | 826 | | | | |
| 7545 | 2 | -130.18 | 18*30* 9 | 11/10/64 | 510 | 7.9 | 218.2 | 12.9 | 4.8 | 61.293 | -69.2 | 18*37*33 | 7.4 | | | 827 | | | | |
| 7548 | 3 | 155.80 | 23*22*21 | 11/10/64 | 510 | 7.8 | 218.3 | 13.7 | 4.9 | 61.276 | -53.3 | 23*41*33 | 19.2 | | | 827 | | | | |
| 7551 | 2 | 81.78 | 4*14*33 | 11/11/64 | 511 | 7.5 | 218.3 | 14.5 | 5.0 | 61.259 | -43.4 | 4*51* 3 | 36.5 | | | 827 | | | | |
| 7558 | 1 | -50.91 | 15*36*22 | 11/11/64 | 511 | 7.0 | 218.3 | 16.2 | 5.2 | 61.219 | -87.8 | 15*46* 3 | 9.7 | | | 828 | | | | |
| 7560 | 2 | -140.25 | 18*51*10 | 11/11/64 | 511 | 6.9 | 218.3 | 16.7 | 5.3 | 61.208 | -64.1 | 19* 0* 3 | 8.9 | | | 828 | | | | |
| 7562 | 1 | 170.40 | 22* 5*58 | 11/11/64 | 511 | 6.8 | 218.4 | 17.2 | 5.3 | 61.195 | -65.1 | 22*36* 3 | 30.1 | | | 828 | | | | |
| 7564 | 3 | 121.06 | 1*20*46 | 11/12/64 | 512 | 6.7 | 218.5 | 17.7 | 5.4 | 61.180 | -27.3 | 1*43* 3 | 22.3 | | | 828 | | | | |
| 7565 | 3 | 56.38 | 2*58*11 | 11/12/64 | 512 | 6.8 | 218.4 | 18.0 | 5.4 | 61.173 | -63.8 | 3*24* 3 | 25.9 | | | 828 | | | | |
| 7573 | 1 | -100.57 | 15*57*23 | 11/12/64 | 512 | 7.7 | 218.5 | 19.1 | 6.0 | 61.115 | -87.6 | 16* 8* 3 | 10.7 | | | 829 | | | | |
| 7575 | 2 | -150.32 | 19*12*11 | 11/12/64 | 512 | 7.9 | 218.4 | 19.4 | 6.1 | 61.101 | -63.0 | 19*23* 3 | 10.9 | | | 829 | | | | |

| READOUT | | | | | | | | | | ORBIT | | | | | TIME INTERVAL OF FILE ON FMR TAPE | | | | | | | FMR TAPE REEL NO. |
|--------------|------------|-------------------------|------------------|----------------------|------|---------------------------|--------------------------------|----------------------------------|--------------------------------|-------------------------------|------------------------------|--------------------------------------|------------------------------|------------------------|-----------------------------------|-------------------------|-------|-----|-----------------------------------|-----|--|----------------------------|
| ORBIT NO. | CWA STA | SATELLITE ORBITAL | | EQUATOR ASCENDING | | CROSSING AT NODE (ANU) | | SPIN | | VECTOR | | ATTITUDE | | SPIN RATE (/SEC) | BEGIN | E N D | | | DROPOUTS, MINUTES W/R/T AND | | | |
| | | EARTH LONGI (DEG) | MINUTES (GMT) | CALENDAR | DATE | TIROS DAY | DECLI -NA -TION (DEG) | RIGHT ASCEN -SION (DEG) | MINI -MUM NADIR (DEG) | TOT (MIN. AFTER AND) | MINU -TES W/R/T AND | HOURS MINUTES SECONDS (GMT) | MINU -TES W/R/T AND | | | SECONDS W/R/T AND | FROM- | TO- | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| 7580 | 2 | 66.32 | 3*19*12 | 11/13/64 | 513 | 8.4 | 218.4 | 20.0 | 6.5 | 61.066 | -50.6 | 3*55*33 | 36.4 | | | | | | | 829 | | |
| 7585 | 2 | -125.72 | 17*55*48 | 11/13/64 | 513 | 9.3 | 218.4 | 21.2 | 7.1 | 61.005 | -70.1 | 18* 5* 3 | 9.3 | | | | | | | 830 | | |
| 7592 | 3 | 150.26 | 22*48* 0 | 11/13/64 | 513 | 9.6 | 218.4 | 21.6 | 7.3 | 60.986 | -53.8 | 23* 7*33 | 19.6 | | | | | | | 830 | | |
| 7594 | 3 | 100.92 | 2* 2*49 | 11/14/64 | 514 | 9.9 | 218.4 | 21.8 | 7.4 | 60.973 | -54.7 | 2*28*33 | 25.7 | | | | | | | 830 | | |
| 7604 | 2 | -145.78 | 18*16*49 | 11/14/64 | 514 | 10.9 | 218.5 | 23.1 | 8.2 | 60.909 | -70.2 | 18*27* 3 | 10.2 | | | | | | | 831 | | |
| 7606 | 1 | 164.86 | 21*31*38 | 11/14/64 | 514 | 11.1 | 218.4 | 23.3 | 8.3 | 60.896 | -63.8 | 22* 2*33 | 30.9 | | | | | | | 831 | | |
| 7609 | 2 | 90.85 | 2*23*50 | 11/15/64 | 515 | 11.4 | 218.5 | 23.6 | 8.5 | 60.877 | -46.8 | 2*59* 3 | 35.2 | | | | | | | 831 | | |
| 7618 | 2 | -121.18 | 17* 0*26 | 11/15/64 | 515 | 12.5 | 218.6 | 24.7 | 9.2 | 60.822 | -63.4 | 17* 8* 3 | 7.6 | | | | | | | 832 | | |
| 7621 | 3 | 154.79 | 21*52*39 | 11/15/64 | 515 | 12.8 | 218.6 | 25.0 | 9.4 | 60.805 | -55.4 | 22*11*33 | 18.9 | | | | | | | 832 | | |
| 7624 | 2 | 80.78 | 2*44*51 | 11/16/64 | 516 | 13.1 | 218.6 | 25.3 | 9.6 | 60.787 | -43.8 | 3*22* 3 | 37.2 | | | | | | | 832 | | |
| 7631 | 1 | -91.91 | 14* 6*39 | 11/16/64 | 516 | 13.9 | 218.8 | 26.1 | 10.2 | 60.746 | -86.8 | 14*16* 3 | 9.4 | | | | | | | 833 | | |
| 7633 | 2 | -141.25 | 17*21*28 | 11/16/64 | 516 | 14.1 | 218.8 | 26.3 | 10.4 | 60.734 | -64.2 | 17*31* 3 | 9.6 | | | | | | | 833 | | |
| 7638 | 3 | 95.38 | 1*28*28 | 11/17/64 | 517 | 15.8 | 219.0 | 26.4 | 10.8 | 60.706 | 15.0 | 1*54*33 | 26.1 | | | | | | | 833 | | |
| 7665 | 1 | 149.26 | 21*18*18 | 11/18/64 | 518 | 30.8 | 225.6 | 21.0 | 16.5 | 60.557 | -55.7 | 21*52* 3 | 33.8 | | | | | | | 834 | | |
| 7668 | 2 | 75.24 | 2*10*30 | 11/19/64 | 519 | 32.6 | 226.8 | 20.2 | 17.0 | 60.541 | -66.0 | 2*49*33 | 39.1 | | | | | | | 834 | | |
| 7675 | 1 | -57.45 | 13*32*18 | 11/19/64 | 519 | 35.4 | 231.1 | 19.5 | 18.8 | 60.503 | -87.8 | 13*43* 3 | 10.8 | | | | | | | 835 | | |
| 7676 | 1 | -122.12 | 15* 9*43 | 11/19/64 | 519 | 35.6 | 231.5 | 19.5 | 18.9 | 60.498 | -75.2 | 15*24* 3 | 14.3 | | | | | | | 835 | | |
| 7677 | 2 | -146.79 | 16*47* 7 | 11/19/64 | 519 | 35.9 | 231.7 | 19.4 | 19.1 | 60.493 | -71.7 | 16*57*33 | 10.4 | | | | | | | 835 | | |
| 7680 | 1 | 139.19 | 21*39*19 | 11/19/64 | 519 | 36.8 | 232.4 | 19.0 | 19.5 | 60.477 | -59.3 | 22*14* 3 | 34.7 | | | | | | | 835 | | |
| 7682 | 2 | 85.85 | 0*54* 7 | 11/20/64 | 520 | 37.7 | 233.6 | 18.6 | 19.8 | 60.466 | -56.0 | 1*30* 3 | 35.9 | | | | | | | 835 | | |
| 7690 | 1 | -107.51 | 13*53*19 | 11/20/64 | 520 | 39.4 | 239.7 | 18.1 | 21.8 | 60.424 | -77.6 | 14* 5* 3 | 11.7 | | | | | | | 836 | | |
| 7692 | 2 | -156.86 | 17* 8* 7 | 11/20/64 | 520 | 39.6 | 240.5 | 18.1 | 22.1 | 60.413 | -73.8 | 17*19* 3 | 10.9 | | | | | | | 836 | | |
| 7694 | 1 | 153.79 | 20*22*56 | 11/20/64 | 520 | 39.9 | 241.1 | 18.1 | 22.4 | 60.403 | -63.0 | 20*54*33 | 31.6 | | | | | | | 836 | | |
| 7695 | 1 | 129.12 | 22* 0*20 | 11/20/64 | 520 | 40.1 | 241.6 | 18.0 | 22.5 | 60.398 | -54.0 | 22*35*33 | 35.2 | | | | | | | 836 | | |
| 7696 | 3 | 104.45 | 23*37*44 | 11/20/64 | 520 | 40.4 | 242.2 | 17.8 | 22.7 | 60.392 | -49.5 | 0* 2*33 | 24.8 | | | | | | | 836 | | |
| 7697 | 2 | 79.78 | 1*15* 8 | 11/21/64 | 521 | 40.6 | 243.1 | 17.6 | 22.9 | 60.387 | -60.7 | 1*52* 3 | 36.9 | | | | | | | 836 | | |

| READOUT | | | | | | | | | | ORBIT | | | | TIME INTERVAL OF FILE ON FMR TAPE | | | | | | FMR TAPE REEL NO. |
|--------------|------------|------------------------------|--------------------------------------|---------------------|--------------|--------------------------------|----------------------------------|--------------------------------|-------------------------------|------------------------------|--------------------------------------|-------------------------------|-------|-----------------------------------|-----|-----------------------------------|-----|--|--|----------------------------|
| ORBIT NO. | COA STA | SATELLITE ORBITAL | | EQUATOR CROSSING AT | | SPIN | | VECTOR | | ATTITUDE | | SPIN RATE (DEG /SEC) | BEGIN | E N O | | DROPOUTS, MINUTES W/R/T AND | | | | |
| | | EARTH LONGI- TUD (DEG) | HOURS MINUTES SECONDS (GMT) | CALENDAR DATE | TIROS DAY | DECLI- NA- TION (DEG) | RIGHT ASCEN- SION (DEG) | MINI- MUM NADIR (DEG) | TOT (MIN. AFTER AND) | MINU- TES W/R/T AND | HOURS MINUTES SECONDS (GMT) | | | MINU- TES W/R/T AND | TO- | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| 7764 | 2 | -133.19 | 14* 1* 0 | 11/25/64 | 525 | 31.4 | 268.5 | 17.8 | 33.0 | 59.980 | -73.3 | 14* 8*33 | 7.6 | | | | 841 | | | |
| 7765 | 2 | -157.86 | 15*38*24 | 11/25/64 | 525 | 31.2 | 268.6 | 17.7 | 33.1 | 59.974 | -77.1 | 15*49*33 | 11.2 | | | | 841 | | | |
| 7767 | 1 | 152.79 | 18*53*12 | 11/25/64 | 525 | 31.2 | 268.6 | 17.6 | 33.2 | 59.962 | -60.7 | 19*26* 3 | 32.9 | | | | 841 | | | |
| 7769 | 2 | 103.44 | 22* 8* 0 | 11/25/64 | 525 | 31.1 | 268.8 | 17.4 | 33.4 | 59.950 | -38.4 | 22*41*33 | 33.6 | | | | 841 | | | |
| 7770 | 2 | 78.78 | 23*45*25 | 11/25/64 | 525 | 31.0 | 268.9 | 17.3 | 33.5 | 59.944 | -50.3 | 0*22*33 | 37.1 | | | | 841 | | | |
| 7777 | 1 | -93.91 | 11* 7*13 | 11/26/64 | 526 | 30.4 | 269.4 | 16.6 | 34.0 | 59.902 | -87.7 | 11*16*33 | 9.3 | | | | 842 | | | |
| 7778 | 1 | -118.58 | 12*44*37 | 11/26/64 | 526 | 30.3 | 269.4 | 16.6 | 34.1 | 59.896 | -32.6 | 12*57*33 | 12.9 | | | | 842 | | | |
| 7779 | 2 | -143.25 | 14*22* 1 | 11/26/64 | 526 | 30.2 | 269.4 | 16.5 | 34.2 | 59.890 | -73.1 | 14*30*33 | 8.5 | | | | 842 | | | |
| 7781 | 1 | 167.39 | 17*36*49 | 11/26/64 | 526 | 30.1 | 269.5 | 16.3 | 34.3 | 59.878 | -66.0 | 18* 6*33 | 29.7 | | | | 842 | | | |
| 7782 | 1 | 142.72 | 19*14*13 | 11/26/64 | 526 | 30.1 | 269.5 | 16.2 | 34.4 | 59.872 | -4.8 | 19*49* 3 | 34.8 | | | | 842 | | | |
| 7783 | 3 | 118.05 | 20*51*37 | 11/26/64 | 526 | 30.0 | 269.6 | 16.1 | 34.4 | 59.866 | -50.7 | 21*14*33 | 22.9 | | | | 842 | | | |
| 7784 | 2 | 53.38 | 22*29* 1 | 11/26/64 | 526 | 29.9 | 269.7 | 16.0 | 34.5 | 59.860 | -61.8 | 23* 5* 3 | 36.0 | | | | 842 | | | |
| 7792 | 1 | -103.68 | 11*28*14 | 11/27/64 | 527 | 29.2 | 270.4 | 15.1 | 35.2 | 59.813 | -77.2 | 11*37*33 | 9.3 | | | | 843 | | | |
| 7794 | 2 | -153.32 | 14*43* 2 | 11/27/64 | 527 | 29.0 | 270.5 | 14.9 | 35.3 | 59.802 | -65.0 | 14*53* 3 | 10.0 | | | | 843 | | | |
| 7799 | 2 | 83.31 | 22*50* 2 | 11/27/64 | 527 | 28.7 | 270.7 | 14.4 | 35.5 | 59.773 | -40.3 | 23*26*33 | 36.5 | | | | 843 | | | |
| 7806 | 1 | -65.37 | 10*11*51 | 11/28/64 | 528 | 28.1 | 271.1 | 13.5 | 36.1 | 59.732 | -86.7 | 10*20*33 | 8.7 | | | | 844 | | | |
| 7808 | 2 | -138.72 | 13*26*39 | 11/28/64 | 528 | 28.0 | 271.2 | 13.3 | 36.2 | 59.720 | -64.4 | 13*14*33 | 7.9 | | | | 844 | | | |
| 7813 | 2 | 57.92 | 21*33*39 | 11/28/64 | 528 | 27.7 | 271.3 | 12.6 | 36.5 | 59.692 | -42.1 | 22* 7*33 | 33.9 | | | | 844 | | | |
| 7822 | 2 | -124.11 | 12*10*16 | 11/29/64 | 529 | 27.0 | 271.6 | 11.5 | 37.1 | 59.640 | -65.0 | 12*17* 3 | 6.8 | | | | 845 | | | |
| 7825 | 1 | 161.87 | 17* 2*28 | 11/29/64 | 529 | 26.9 | 271.6 | 11.1 | 37.3 | 59.622 | -29.6 | 17*13* 3 | 30.6 | | | | 845 | | | |
| 7826 | 1 | 137.19 | 18*39*52 | 11/29/64 | 529 | 26.8 | 271.6 | 11.0 | 37.3 | 59.616 | -38.9 | 19*13*33 | 33.7 | | | | 845 | | | |
| 7827 | 3 | 112.52 | 20*17*16 | 11/29/64 | 529 | 26.7 | 271.6 | 10.9 | 37.4 | 59.611 | -50.3 | 20*40*33 | 23.3 | | | | 845 | | | |
| 7836 | 1 | -109.51 | 10*53*52 | 11/30/64 | 530 | 26.1 | 271.9 | 9.6 | 38.0 | 59.558 | -81.7 | 11* 4*33 | 10.7 | | | | 846 | | | |
| 7838 | 2 | -158.85 | 14* 8*41 | 11/30/64 | 530 | 26.0 | 271.9 | 9.4 | 38.1 | 59.546 | -61.6 | 14*20*33 | 11.9 | | | | 846 | | | |
| 7843 | 2 | 77.79 | 22*15*41 | 11/30/64 | 530 | 26.0 | 271.8 | 8.7 | 38.3 | 59.517 | -43.9 | 22*53*33 | 37.9 | | | | 846 | | | |
| 7850 | 1 | -54.93 | 9*37*29 | 12/ 1/64 | 531 | 26.8 | 271.6 | 7.1 | 38.4 | 59.475 | -86.4 | 9*46*33 | 9.1 | | | | 847 | | | |

| REAOOUT | | | | | | | | | | ORBIT | | | | | | | | | | TIME INTERVAL OF FILE ON FMR TAPE | | | | | | | | | | FMR TAPE REEL NO. |
|--------------|---|------------|----------|-----------------------------------|-----|-----------------------------------|-------|----------------|--------|-----------------------------|--------|-------------------------------|------|-----------------------------|--|-------------------------------|--|-----------------------------------|--|-----------------------------------|--|-----|--|--|--|--|--|--|--|----------------------------|
| ORBIT NO. | | CLA STA | | SATELLITE ORBITAL DATA | | EQUATOR CROSSING NODE (ANO) | | SPIN VECTOR | | ATTITUDE | | SPIN RATE (DEG /SEC) | | BEGIN | | E N D | | DROPOUTS, MINUTES W/R/T AND | | FROM- TO- | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | HOURS MINUTES SECONDS (GMT) | | CALENDAR DATE | | TIKOS DAY | | DECLI- NA- TION (DEG) | | RIGHT ASCEN- SION (DEG) | | MINI- MUM NADIR (DEG) | | TOT (MIN. AFTER AND) | | MINU- TES W/R/T AND | | | | | | | | | | | | |
| 7851 | 1 | -119.60 | 11*14*53 | 12/ 1/64 | 531 | 6.8 | 271.7 | 26.9 | 59.469 | 38.4 | 59.469 | 11*27*33 | 12.7 | | | | | | | | | 847 | | | | | | | | |
| 7852 | 2 | -144.27 | 12*52*17 | 12/ 1/64 | 531 | 6.6 | 271.7 | 27.0 | 59.463 | 38.4 | 59.463 | 13* 3* 3 | 10.8 | | | | | | | | | 847 | | | | | | | | |
| 7855 | 1 | 141.71 | 17*44*29 | 12/ 1/64 | 531 | 5.9 | 271.7 | 27.3 | 59.445 | 38.5 | 59.445 | 18*18* 3 | 33.6 | | | | | | | | | 847 | | | | | | | | |
| 7857 | 2 | 92.36 | 20*59*18 | 12/ 1/64 | 531 | 5.4 | 271.7 | 27.4 | 59.432 | 38.6 | 59.432 | 21*33*33 | 34.3 | | | | | | | | | 847 | | | | | | | | |
| 7865 | 1 | -105.00 | 9*58*30 | 12/ 2/64 | 532 | 3.5 | 271.6 | 28.4 | 59.383 | 38.7 | 59.383 | 10* 8*33 | 10.1 | | | | | | | | | 848 | | | | | | | | |
| 7866 | 2 | -129.67 | 11*35*54 | 12/ 2/64 | 532 | 3.3 | 271.6 | 28.5 | 59.377 | 38.7 | 59.377 | 11*43* 0 | 7.1 | | | | | | | | | 848 | | | | | | | | |
| 7867 | 2 | -154.34 | 13*13*18 | 12/ 2/64 | 532 | 3.0 | 271.6 | 28.6 | 59.371 | 38.7 | 59.371 | 13*23*33 | 10.3 | | | | | | | | | 848 | | | | | | | | |
| 7869 | 1 | 156.31 | 16*28* 6 | 12/ 2/64 | 532 | 2.5 | 271.7 | 28.8 | 59.358 | 38.7 | 59.358 | 16*59* 3 | 31.0 | | | | | | | | | 848 | | | | | | | | |
| 7870 | 1 | 121.64 | 18* 5*30 | 12/ 2/64 | 532 | 2.3 | 271.6 | 28.9 | 59.352 | 38.8 | 59.352 | 18*40* 3 | 34.6 | | | | | | | | | 848 | | | | | | | | |
| 7872 | 2 | 82.30 | 21*20*18 | 12/ 2/64 | 532 | 1.8 | 271.6 | 29.1 | 59.339 | 38.8 | 59.339 | 21*56*33 | 36.3 | | | | | | | | | 848 | | | | | | | | |
| 7880 | 1 | -115.06 | 10*19*31 | 12/ 3/64 | 533 | -0.1 | 271.4 | 30.2 | 59.288 | 38.8 | 59.288 | 10*31*33 | 12.0 | | | | | | | | | 849 | | | | | | | | |
| 7884 | 1 | 146.24 | 16*49* 7 | 12/ 3/64 | 533 | -1.1 | 271.4 | 30.6 | 59.261 | 38.9 | 59.261 | 17*22* 3 | 32.9 | | | | | | | | | 849 | | | | | | | | |
| 7886 | 2 | 56.90 | 20* 3*55 | 12/ 3/64 | 533 | -1.5 | 271.3 | 30.9 | 59.248 | 38.9 | 59.248 | 20*37*33 | 33.6 | | | | | | | | | 849 | | | | | | | | |
| 7896 | 2 | -149.80 | 12*17*55 | 12/ 4/64 | 534 | -4.0 | 271.2 | 32.3 | 59.180 | 38.9 | 59.180 | 12*27*33 | 9.6 | | | | | | | | | 850 | | | | | | | | |
| 7899 | 1 | 126.18 | 17*10* 8 | 12/ 4/64 | 534 | -4.8 | 271.2 | 32.6 | 59.159 | 38.9 | 59.159 | 17*44* 3 | 33.9 | | | | | | | | | 850 | | | | | | | | |
| 7901 | 2 | 66.84 | 20*24*56 | 12/ 4/64 | 534 | -5.2 | 271.1 | 32.9 | 59.145 | 39.0 | 59.145 | 21* 0*33 | 35.6 | | | | | | | | | 850 | | | | | | | | |
| 7911 | 2 | -159.86 | 12*38*56 | 12/ 5/64 | 535 | -7.6 | 270.9 | 34.4 | 59.073 | 38.8 | 59.073 | 12*50*33 | 11.6 | | | | | | | | | 851 | | | | | | | | |
| 7913 | 1 | 150.78 | 15*53*44 | 12/ 5/64 | 535 | -8.1 | 270.9 | 34.6 | 59.059 | 38.8 | 59.059 | 16*25*33 | 31.8 | | | | | | | | | 851 | | | | | | | | |
| 7915 | 3 | 101.44 | 19* 8*32 | 12/ 5/64 | 535 | -8.6 | 270.9 | 34.9 | 59.044 | 38.8 | 59.044 | 19*34* 3 | 25.5 | | | | | | | | | 851 | | | | | | | | |
| 7925 | 2 | -145.26 | 11*22*23 | 12/ 6/64 | 536 | -11.0 | 270.7 | 36.5 | 58.967 | 38.7 | 58.967 | 11*30*33 | 8.0 | | | | | | | | | 852 | | | | | | | | |
| 7927 | 1 | 165.39 | 14*37*21 | 12/ 6/64 | 536 | -11.6 | 270.7 | 36.8 | 58.952 | 38.7 | 58.952 | 15* 7*33 | 30.2 | | | | | | | | | 852 | | | | | | | | |
| 7928 | 1 | 140.72 | 16*14*45 | 12/ 6/64 | 536 | -11.8 | 270.7 | 36.9 | 58.944 | 38.7 | 58.944 | 16*47*33 | 32.8 | | | | | | | | | 852 | | | | | | | | |
| 7930 | 2 | 51.36 | 19*29*33 | 12/ 6/64 | 536 | -12.3 | 270.6 | 37.2 | 58.928 | 38.7 | 58.928 | 20* 4*33 | 35.0 | | | | | | | | | 852 | | | | | | | | |
| 7940 | 2 | -155.32 | 11*43*34 | 12/ 7/64 | 537 | -14.7 | 270.4 | 38.9 | 58.846 | 38.6 | 58.846 | 11*54* 3 | 10.5 | | | | | | | | | 853 | | | | | | | | |
| 7942 | 1 | 155.32 | 14*56*12 | 12/ 7/64 | 537 | -15.2 | 270.4 | 39.2 | 58.829 | 38.5 | 58.829 | 15*29*33 | 31.2 | | | | | | | | | 853 | | | | | | | | |
| 7943 | 1 | 130.65 | 16*35*46 | 12/ 7/64 | 537 | -15.5 | 270.5 | 39.4 | 58.820 | 38.6 | 58.820 | 17*10*33 | 34.8 | | | | | | | | | 853 | | | | | | | | |

| HEADOUT | | | | | | | | | | ORBIT | | | | | | | | | | TIME INTERVAL OF FILE ON FMR TAPE | | | | | | | | | | FMR TAPE REEL NO. | | |
|--------------|------------|----------------------------------|--------------------------------------|------------------|--------------|----------------------|--------------|-------------------------|-----------------------|------------------------|-----------------------|----------------------|----------------------|---------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-----------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|--|--|--|--|----------------------------|--|-----|
| ORBIT NO. | CCA STA | SATELLITE EQUATOR CROSSING AT | | | | SPIN VECTOR ATTITUDE | | | | BEGIN | | E N D | | | | DROPOUTS, MINUTES | | | | | | | | | | | | | | | | |
| | | ORBITAL ASCENDING | | AT | | DECLI | | RIGHT | | MINI | | TOT | | SPIN | | MINU | | HOURS | | MINUTES | | W/R/T AND | | FROM- TO- | | | | | | | | |
| | | EARTH LONGI- TUDE (DEG) | HOURS MINUTES SECONDS (GMT) | CALENDAR DATE | FIROS DAY | -TION (DEG) | -NA (DEG) | ASCEN- SION (DEG) | MUM NADIR (DEG) | (MIN. AFTER AND) | RATE (DEG /SEC) | -TES W/R/T AND | MINU W/R/T AND | YES W/R/T AND | MINU W/R/T AND | SECONDS (GMT) | MINU W/R/T AND | MINU W/R/T AND | MINU W/R/T AND | MINU W/R/T AND | MINU W/R/T AND | MINU W/R/T AND | MINU W/R/T AND | MINU W/R/T AND | MINU W/R/T AND | | | | | | | |
| 7945 | 2 | 81.31 | 19*50*34 | 12/ 7/64 | 537 | | 39.7 | 270.4 | -15.9 | 38.5 | 58.803 | -39.6 | 20*29* 3 | 38.5 | | | | | | | | | | | | | | | | | | 853 |
| 7954 | 1 | -140.75 | 10*27*10 | 12/ 8/64 | 538 | | 41.3 | 270.3 | -18.1 | 38.3 | 58.740 | -64.6 | 10*34*33 | 7.4 | | | | | | | | | | | | | | | | | | 854 |
| 7957 | 1 | 145.23 | 15*19*23 | 12/ 8/64 | 538 | | 41.8 | 270.3 | -18.8 | 38.3 | 58.716 | -59.0 | 15*51*33 | 32.2 | | | | | | | | | | | | | | | | | | 854 |
| 7959 | 2 | 55.89 | 18*34*11 | 12/ 8/64 | 538 | | 42.1 | 270.2 | -19.3 | 38.3 | 58.700 | -41.6 | 19* 8*33 | 34.4 | | | | | | | | | | | | | | | | | | 854 |
| 7971 | 1 | 159.83 | 14* 2*59 | 12/ 9/64 | 539 | | 44.3 | 270.0 | -22.1 | 37.9 | 58.607 | -67.1 | 14*33*33 | 30.6 | | | | | | | | | | | | | | | | | | 855 |
| 7984 | 2 | -160.88 | 11* 9*12 | 12/10/64 | 540 | | 43.2 | 269.2 | -23.6 | 38.4 | 58.506 | -59.0 | 11*21*33 | 12.4 | | | | | | | | | | | | | | | | | | 856 |
| 7986 | 1 | 145.77 | 14*24* 0 | 12/10/64 | 540 | | 43.1 | 269.0 | -23.7 | 38.5 | 58.491 | 5.5 | 14*56*33 | 32.6 | | | | | | | | | | | | | | | | | | 856 |
| 8000 | 1 | 164.37 | 13* 7*36 | 12/11/64 | 541 | | 41.3 | 268.1 | -24.9 | 39.2 | 58.383 | -68.2 | 13*38* 3 | 30.5 | | | | | | | | | | | | | | | | | | 857 |
| 8003 | 2 | 90.36 | 17*55*48 | 12/11/64 | 541 | | 40.9 | 267.9 | -25.1 | 39.3 | 58.360 | -23.3 | 18*35* 3 | 35.3 | | | | | | | | | | | | | | | | | | 857 |
| 8013 | 2 | -156.34 | 10*13*49 | 12/12/64 | 542 | | 39.6 | 267.1 | -26.0 | 39.8 | 58.284 | -56.6 | 10*24*33 | 10.7 | | | | | | | | | | | | | | | | | | 858 |
| 8018 | 2 | 80.29 | 18*20*49 | 12/12/64 | 542 | | 39.1 | 266.8 | -26.4 | 40.1 | 58.246 | -31.8 | 18*58* 3 | 37.2 | | | | | | | | | | | | | | | | | | 858 |
| 8027 | 2 | -141.74 | 8*57*26 | 12/13/64 | 543 | | 37.9 | 266.0 | -27.1 | 40.5 | 58.179 | -63.3 | 9* 5*33 | 8.1 | | | | | | | | | | | | | | | | | | 859 |
| 8032 | 2 | 54.90 | 17* 4*26 | 12/13/64 | 543 | | 37.4 | 265.6 | -27.5 | 40.7 | 58.141 | -31.6 | 17*39* 3 | 34.6 | | | | | | | | | | | | | | | | | | 859 |
| 8042 | 2 | -151.80 | 9*18*26 | 12/14/64 | 544 | | 36.1 | 264.7 | -28.4 | 41.2 | 58.066 | -56.1 | 9*28*33 | 10.1 | | | | | | | | | | | | | | | | | | 860 |
| 8045 | 1 | 134.17 | 14*10*38 | 12/14/64 | 544 | | 35.8 | 264.4 | -28.6 | 41.4 | 58.044 | -50.5 | 14*45* 3 | 34.4 | | | | | | | | | | | | | | | | | | 860 |
| 8047 | 2 | 84.83 | 17*25*26 | 12/14/64 | 544 | | 35.6 | 264.3 | -28.8 | 41.4 | 58.029 | -38.0 | 18* 2* 3 | 36.6 | | | | | | | | | | | | | | | | | | 860 |
| 8059 | 1 | 148.77 | 12*54*15 | 12/15/64 | 545 | | 34.2 | 263.2 | -29.9 | 42.0 | 57.940 | -63.5 | 13*27*33 | 33.3 | | | | | | | | | | | | | | | | | | 861 |
| 8062 | 2 | 74.76 | 17*46*27 | 12/15/64 | 545 | | 33.1 | 263.0 | -30.0 | 42.3 | 57.918 | -29.8 | 18*25*33 | 39.1 | | | | | | | | | | | | | | | | | | 861 |
| 8069 | 1 | -57.93 | 5* 8*15 | 12/16/64 | 546 | | 29.9 | 261.8 | -29.5 | 43.3 | 57.867 | -4.5 | 5*17* 3 | 8.8 | | | | | | | | | | | | | | | | | | 862 |
| 8070 | 1 | -122.60 | 6*45*39 | 12/16/64 | 546 | | 29.6 | 261.5 | -29.3 | 43.4 | 57.860 | -76.0 | 7* 0* 3 | 14.4 | | | | | | | | | | | | | | | | | | 862 |
| 8071 | 2 | -147.27 | 8*23* 3 | 12/16/64 | 546 | | 29.3 | 261.2 | -29.2 | 43.5 | 57.852 | -71.0 | 8*32* 3 | 9.0 | | | | | | | | | | | | | | | | | | 862 |
| 8073 | 3 | 163.38 | 11*37*51 | 12/16/64 | 546 | | 28.6 | 260.7 | -28.9 | 43.7 | 57.838 | -63.1 | 11*56*33 | 18.7 | | | | | | | | | | | | | | | | | | 862 |
| 8075 | 3 | 114.63 | 14*52*40 | 12/16/64 | 546 | | 27.9 | 260.3 | -28.7 | 43.8 | 57.823 | -18.8 | 15*15*33 | 22.9 | | | | | | | | | | | | | | | | | | 862 |
| 8076 | 2 | 89.36 | 16*30* 4 | 12/16/64 | 546 | | 27.5 | 260.3 | -28.6 | 44.0 | 57.816 | -60.1 | 17* 5* 3 | 35.0 | | | | | | | | | | | | | | | | | | 862 |
| 8083 | 1 | -83.33 | 3*51*52 | 12/17/64 | 547 | | 24.3 | 259.4 | -28.2 | 45.0 | 57.765 | -6.6 | 4* 0* 3 | 8.2 | | | | | | | | | | | | | | | | | | 863 |
| 8084 | 1 | -108.00 | 5*29*16 | 12/17/64 | 547 | | 23.9 | 259.1 | -28.0 | 45.1 | 57.758 | 1.6 | 5*40* 3 | 10.8 | | | | | | | | | | | | | | | | | | 863 |

| READOUT | | | | | | | | | | ORBIT | | | | | | | | | | TIME INTERVAL OF FILE ON FMR TAPE | | | | | | | | | | FMR TAPE REEL NO. |
|--------------|---|------------|----------|-------------------------|--------------------------------------|---------------------|--------------|-----------------------|----------------------------------|--------------------------------|-------------------------------|-----------------------|------------------------------|--------------------------------------|------------------------------|-------|-----|-------|--|-----------------------------------|--|-----|--|--|--|--|--|--|--|----------------------------|
| ORBIT NO. | | CCA STA | | SATELLITE ORBITAL | | EQUATOR CROSSING AT | | SPIN | | VECTOR | | ATTITUDE | | SPIN | | BEGIN | | E N D | | DROPOUTS, MINUTES | | | | | | | | | | |
| | | | | LONGI -TIDE (DEG) | HOURS MINUTES SECONDS (GMT) | CALENDAR DATE | TIROS DAY | DECLI -NA (DEG) | RIGHT ASCEN -SION (DEG) | MINI -NUM NADIR (DEG) | TOT (MIN. AFTER ANO) | RATE (DEG /SEC) | MINU -TES W/R/T ANO | HOURS MINUTES SECONDS (GMT) | MINU -TES W/R/T ANO | FROM- | TO- | | | | | | | | | | | | | |
| 8085 | 2 | -132.67 | 7* 6*40 | 12/17/64 | 547 | 23.6 | 258.8 | -27.9 | 45.2 | 57.750 | -6.7 | 7*14* 3 | 7.4 | | | | | | | | | 863 | | | | | | | | |
| 8086 | 2 | -157.34 | 8*44* 4 | 12/17/64 | 547 | 23.2 | 258.5 | -27.7 | 45.3 | 57.743 | -6.7 | 8*55* 3 | 11.0 | | | | | | | | | 863 | | | | | | | | |
| 8089 | 3 | 128.64 | 13*36*16 | 12/17/64 | 547 | 22.4 | 257.9 | -27.3 | 45.6 | 57.721 | -6.1 | 13*57*33 | 21.3 | | | | | | | | | 863 | | | | | | | | |
| 8090 | 3 | 103.67 | 15*13*40 | 12/17/64 | 547 | 22.3 | 257.8 | -27.3 | 45.6 | 57.714 | 8.8 | 15*38* 3 | 24.4 | | | | | | | | | 863 | | | | | | | | |
| 8091 | 2 | 79.30 | 16*51* 4 | 12/17/64 | 547 | 22.2 | 257.8 | -27.4 | 45.7 | 57.707 | -23.6 | 17*29* 3 | 38.0 | | | | | | | | | 863 | | | | | | | | |
| 8098 | 1 | -93.39 | 4*12*52 | 12/18/64 | 548 | 21.3 | 257.3 | -28.2 | 46.1 | 57.656 | -4.9 | 4*21* 3 | 8.2 | | | | | | | | | 864 | | | | | | | | |
| 8099 | 1 | -118.06 | 5*50*16 | 12/18/64 | 548 | 21.2 | 257.2 | -28.2 | 46.2 | 57.649 | -4.9 | 6* 3*28 | 13.2 | | | | | | | | | 864 | | | | | | | | |
| 8114 | 2 | -128.13 | 6*11*17 | 12/19/64 | 549 | 19.5 | 255.9 | -29.7 | 47.0 | 57.542 | -6.1 | 6*18* 3 | 6.8 | | | | | | | | | 865 | | | | | | | | |
| 8115 | 2 | -152.80 | 7*46*41 | 12/19/64 | 549 | 19.4 | 255.8 | -29.7 | 47.0 | 57.534 | -5.7 | 7*58*33 | 9.9 | | | | | | | | | 865 | | | | | | | | |
| 8118 | 3 | 133.18 | 12*40*53 | 12/19/64 | 549 | 19.2 | 255.5 | -30.0 | 47.1 | 57.513 | -3.8 | 13* 3*58 | 23.1 | | | | | | | | | 865 | | | | | | | | |
| 8127 | 1 | -68.85 | 3*17*29 | 12/20/64 | 550 | 18.0 | 254.9 | -30.9 | 47.7 | 57.449 | -0.8 | 3*27* 3 | 9.6 | | | | | | | | | 866 | | | | | | | | |
| 8128 | 1 | -113.52 | 4*54*53 | 12/20/64 | 550 | 17.9 | 254.8 | -31.0 | 47.7 | 57.442 | -3.2 | 5* 6*33 | 11.7 | | | | | | | | | 866 | | | | | | | | |
| 8129 | 2 | -138.19 | 6*32*17 | 12/20/64 | 550 | 17.9 | 254.6 | -31.1 | 47.8 | 57.435 | -4.3 | 6*40* 3 | 7.8 | | | | | | | | | 866 | | | | | | | | |
| 8133 | 3 | 123.12 | 13* 1*54 | 12/20/64 | 550 | 17.5 | 254.2 | -31.4 | 47.9 | 57.407 | -4.3 | 13*23*33 | 21.7 | | | | | | | | | 866 | | | | | | | | |
| 8142 | 1 | -58.91 | 3*38*30 | 12/21/64 | 551 | 16.5 | 253.6 | -32.3 | 48.5 | 57.343 | -3.9 | 3*47*33 | 9.1 | | | | | | | | | 867 | | | | | | | | |
| 8143 | 1 | -123.59 | 5*15*54 | 12/21/64 | 551 | 16.4 | 253.4 | -32.4 | 48.5 | 57.336 | -6.3 | 5*30* 3 | 14.2 | | | | | | | | | 867 | | | | | | | | |
| 8144 | 2 | -148.26 | 6*53*18 | 12/21/64 | 551 | 16.3 | 253.3 | -32.5 | 48.6 | 57.329 | 4.6 | 7* 2*33 | 9.3 | | | | | | | | | 867 | | | | | | | | |
| 8147 | 3 | 137.72 | 11*45*30 | 12/21/64 | 551 | 16.1 | 253.0 | -32.7 | 48.7 | 57.308 | -2.5 | 12* 5*33 | 20.1 | | | | | | | | | 867 | | | | | | | | |
| 8148 | 3 | 113.05 | 13*22*54 | 12/21/64 | 551 | 16.0 | 252.9 | -32.8 | 48.7 | 57.301 | 0.4 | 13*46* 3 | 23.2 | | | | | | | | | 867 | | | | | | | | |
| 8156 | 1 | -84.33 | 2*22* 6 | 12/22/64 | 552 | 15.1 | 252.3 | -33.7 | 49.2 | 57.245 | -2.6 | 2*30*33 | 8.5 | | | | | | | | | 868 | | | | | | | | |
| 8157 | 1 | -109.60 | 3*59*30 | 12/22/64 | 552 | 15.0 | 252.2 | -33.7 | 49.3 | 57.238 | -1.8 | 4*10* 3 | 10.6 | | | | | | | | | 868 | | | | | | | | |
| 8158 | 2 | -133.68 | 5*36*55 | 12/22/64 | 552 | 14.9 | 252.1 | -33.8 | 49.3 | 57.231 | -2.3 | 5*44* 3 | 7.1 | | | | | | | | | 868 | | | | | | | | |
| 8159 | 2 | -158.35 | 7*14*19 | 12/22/64 | 552 | 14.8 | 252.0 | -33.9 | 49.4 | 57.225 | -2.3 | 7*25*33 | 11.2 | | | | | | | | | 868 | | | | | | | | |
| 8161 | 3 | 152.30 | 10*29* 7 | 12/22/64 | 552 | 14.7 | 251.7 | -34.0 | 49.4 | 57.211 | -2.4 | 10*48* 3 | 18.9 | | | | | | | | | 868 | | | | | | | | |
| 8162 | 3 | 127.63 | 12* 6*30 | 12/22/64 | 552 | 14.6 | 251.6 | -34.1 | 49.4 | 57.204 | -0.8 | 12*28*33 | 22.1 | | | | | | | | | 868 | | | | | | | | |
| 8171 | 1 | -54.40 | 2*43* 7 | 12/23/64 | 553 | 13.7 | 250.9 | -35.0 | 50.0 | 57.141 | -1.1 | 2*52* 3 | 8.9 | | | | | | | | | 869 | | | | | | | | |

| READOUT | | | | | | | | | | ORBIT | | | | | | | | | | TIME INTERVAL OF FILE ON FMR TAPE | | | | | FMR TAPE REEL NO. |
|--------------|------------|--------------------------------|-------------------------|------------------|--------------|---------------------------|----------------------------------|--------------------------------|-------------------------------|-------------------------------|------------------------------|--------------------------------------|------------------------------|--------------|--|--|-----|--|--|-----------------------------------|--|--|--|--|----------------------------|
| ORBIT NO. | COA STA | SATELLITE EQUATOR CROSSING AT | | | SPIN VECTOR | | ATTITUDE | | SPIN RATE (DEG /SEC) | E N D | | DROPOUTS, MINUTES W/R/T AND | | | | | | | | | | | | | |
| | | ORBITAL LONGI- TUD (DEG) | ASCENDING NODE (ANO) | CALENDAR DATE | TIROS DAY | DECLI- NATION (DEG) | RIGHT ASCEN- SION (DEG) | MINI- MUM NADIR (DEG) | | TOT (MIN. AFTER ANO) | MINU- TES W/R/T AND | HOURS MINUTES SECONDS (GMT) | MINU- TES W/R/T AND | FROM- TO- | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8346 | 1 | -91.83 | 22*48*12 | 1/ 3/65 | 564 | -31.8 | 3*4.8 | -14.9 | 82.5 | 55.984 | -30.4 | 22*56*33 | 8.4 | | | | 878 | | | | | | | | |
| 8361 | 1 | -101.90 | 23* 9*12 | 1/ 4/65 | 565 | -21.8 | 307.8 | -18.8 | 85.7 | 55.889 | -58.6 | 23*18*33 | 9.4 | | | | 879 | | | | | | | | |
| 8362 | 2 | -126.57 | 0*46*23 | 1/ 5/65 | 566 | -20.9 | 307.2 | -19.6 | 86.3 | 55.883 | -76.0 | 0*53*33 | 7.2 | | | | 879 | | | | | | | | |
| 8377 | 2 | -136.66 | 1* 7*36 | 1/ 6/65 | 567 | -10.4 | 307.2 | -24.5 | 88.7 | 55.789 | -74.0 | 1*15*33 | 8.0 | | | | 880 | | | | | | | | |
| 8378 | 2 | -161.33 | 2*45* 0 | 1/ 6/65 | 567 | -9.8 | 306.9 | -25.0 | 88.9 | 55.782 | -78.3 | 2*57*33 | 12.6 | | | | 880 | | | | | | | | |
| 8392 | 2 | -146.72 | 1*28*37 | 1/ 7/65 | 568 | -0.8 | 305.6 | -29.6 | 91.5 | 55.695 | -71.0 | 1*37*33 | 8.9 | | | | 881 | | | | | | | | |
| 8404 | 1 | -82.77 | 20*57*25 | 1/ 7/65 | 568 | -0.1 | 304.7 | -28.3 | 92.1 | 55.620 | -90.3 | 21* 5*33 | 8.1 | | | | 882 | | | | | | | | |
| 8405 | 1 | -107.44 | 22*54*49 | 1/ 7/65 | 568 | -0.1 | 304.7 | -28.2 | 92.1 | 55.614 | -76.8 | 22*45*33 | 10.7 | | | | 882 | | | | | | | | |
| 8406 | 2 | -132.11 | 0*12*13 | 1/ 8/65 | 569 | -0.1 | 304.6 | -28.1 | 92.2 | 55.608 | -74.1 | 0*20*33 | 8.3 | | | | 882 | | | | | | | | |
| 8407 | 2 | -156.78 | 1*49*37 | 1/ 8/65 | 569 | -0. | 304.5 | -28.0 | 92.2 | 55.602 | -75.8 | 2* 1*33 | 11.9 | | | | 882 | | | | | | | | |
| 8419 | 1 | -92.84 | 21*18*25 | 1/ 8/65 | 569 | 0.5 | 303.7 | -26.5 | 92.7 | 55.528 | -54.0 | 21*28* 3 | 9.6 | | | | 883 | | | | | | | | |
| 8420 | 1 | -117.51 | 22*55*49 | 1/ 8/65 | 569 | 0.6 | 303.6 | -26.4 | 92.8 | 55.522 | -75.2 | 23* 8*33 | 12.7 | | | | 883 | | | | | | | | |
| 8421 | 2 | -142.18 | 0*33*13 | 1/ 9/65 | 570 | 0.7 | 303.7 | -26.1 | 92.9 | 55.515 | -71.1 | 0*42*33 | 9.3 | | | | 883 | | | | | | | | |
| 8434 | 1 | -102.90 | 21*39*25 | 1/ 9/65 | 570 | 1.5 | 303.0 | -24.4 | 93.5 | 55.436 | -45.6 | 21*50* 3 | 10.6 | | | | 884 | | | | | | | | |
| 8436 | 2 | -152.24 | 0*54*13 | 1/10/65 | 571 | 1.5 | 303.0 | -24.1 | 93.6 | 55.423 | -72.7 | 1* 4*33 | 10.3 | | | | 884 | | | | | | | | |
| 8449 | 1 | -114.96 | 22* 0*25 | 1/10/65 | 571 | 2.4 | 302.2 | -21.8 | 94.1 | 55.344 | -79.7 | 22*12*33 | 12.1 | | | | 885 | | | | | | | | |
| 8450 | 2 | -137.64 | 23*37*49 | 1/10/65 | 571 | 3.1 | 301.8 | -22.4 | 94.3 | 55.338 | -70.6 | 23*45*33 | 7.7 | | | | 885 | | | | | | | | |
| 8463 | 1 | -58.42 | 20*44* 1 | 1/11/65 | 572 | 13.3 | 299.4 | -26.9 | 97.0 | 55.259 | -58.8 | 20*54* 3 | 10.0 | | | | 886 | | | | | | | | |
| 8464 | 1 | -123.09 | 22*21*26 | 1/11/65 | 572 | 14.1 | 299.0 | -27.4 | 97.2 | 55.253 | -74.5 | 22*35*33 | 14.1 | | | | 886 | | | | | | | | |
| 8465 | 2 | -147.76 | 23*58*50 | 1/11/65 | 572 | 14.8 | 298.5 | -27.9 | 97.4 | 55.247 | -71.9 | 0* 8*33 | 9.7 | | | | 886 | | | | | | | | |
| 8467 | 3 | 162.93 | 3*13*38 | 1/12/65 | 573 | 16.0 | 297.8 | -29.0 | 0.3 | 55.235 | -64.0 | 3*32* 3 | 18.4 | | | | 886 | | | | | | | | |
| 8468 | 3 | 138.26 | 4*51* 2 | 1/12/65 | 573 | 16.5 | 297.4 | -29.4 | 0.4 | 55.229 | -67.9 | 5*11* 3 | 20.0 | | | | 886 | | | | | | | | |
| 8483 | 3 | 128.20 | 5*12* 2 | 1/13/65 | 574 | 28.0 | 293.0 | -34.6 | 3.7 | 55.138 | -12.6 | 5*34* 3 | 22.0 | | | | 887 | | | | | | | | |
| 8496 | 3 | 167.48 | 2*18*14 | 1/14/65 | 575 | 28.2 | 292.7 | -32.7 | 4.2 | 55.060 | -32.0 | 2*36* 3 | 17.8 | | | | 888 | | | | | | | | |
| 8497 | 3 | 142.80 | 3*55*38 | 1/14/65 | 575 | 28.2 | 292.7 | -32.6 | 4.2 | 55.054 | -66.7 | 4*15*33 | 19.9 | | | | 888 | | | | | | | | |
| 8498 | 3 | 118.13 | 5*33* 2 | 1/14/65 | 575 | 28.2 | 292.7 | -32.4 | 4.2 | 55.048 | -65.2 | 5*55*33 | 22.5 | | | | 888 | | | | | | | | |

| READOUT | | | | | | | | | | | | | | ORBIT | | | | TIME INTERVAL OF FILE ON FMR TAPE | | | | | | FMR TAPE REEL NO. |
|--------------|------------|----------------------------------|----------------------------------|--------------------------------------|------|--------------|---------------------------------|-----------------------------------|--------------------------------|-------------------------------|-------------------------------|------------------------------|--------------------------------------|-------|------------------------------|-------|-----|-----------------------------------|--|--|--|--|--|----------------------------|
| ORBIT NO. | COA STA | SATELLITE | | EQUATOR | | CROSSING AT | | SPIN | | VECTOR | | ATTITUDE | | BEGIN | E N D | | | DROPOUTS, MINUTES | | | | | | |
| | | EARTH LONGI- TUDE (DEG) | ORBITAL ASCENDING CALENDAR | HOURS MINUTES SECONDS (GMT) | DATE | TIROS DAY | DECLI- -NA- TION (DEG) | RIGHT ASCEN- -SION (DEG) | MINI- MUN NADIR (DEG) | TOT (MIN. AFTER AND) | SPIN RATE (DEG /SEC) | MINU- TES W/R/T AND | HOURS MINUTES SECONDS (GMT) | | MINU- TES W/R/T AND | FROM- | TO- | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| 8507 | 1 | -103.90 | 20* 9*38 | 1/14/65 | 575 | 28.2 | 292.2 | -30.8 | 4.4 | 54.994 | -78.4 | 2*20* 3 | 10.4 | | | | | 889 | | | | | | |
| 8509 | 2 | -153.24 | 23*24*26 | 1/14/65 | 575 | 28.2 | 292.1 | -30.5 | 4.4 | 54.983 | -74.5 | 23*34*33 | 10.1 | | | | | 889 | | | | | | |
| 8513 | 3 | 108.07 | 5*54* 2 | 1/15/65 | 576 | 28.3 | 291.9 | -29.9 | 4.5 | 54.959 | 15.4 | 6*17*33 | 23.5 | | | | | 889 | | | | | | |
| 8526 | 5 | 147.35 | 3* 0*14 | 1/16/65 | 577 | 28.4 | 291.2 | -27.8 | 4.8 | 54.881 | -19.7 | 3*19*33 | 19.3 | | | | | 890 | | | | | | |
| 8527 | 3 | 122.68 | 4*37*38 | 1/16/65 | 577 | 28.4 | 291.2 | -27.7 | 4.8 | 54.875 | -65.4 | 4*59*33 | 21.9 | | | | | 890 | | | | | | |
| 8528 | 2 | 58.01 | 6*15* 2 | 1/16/65 | 577 | 28.4 | 291.1 | -27.5 | 4.8 | 54.869 | -60.7 | 6*49*33 | 34.5 | | | | | 890 | | | | | | |
| 8541 | 3 | 137.28 | 3*21*14 | 1/17/65 | 578 | 28.6 | 290.4 | -25.5 | 5.1 | 54.792 | -66.7 | 3*41*23 | 20.3 | | | | | 891 | | | | | | |
| 8542 | 3 | 112.61 | 4*58*38 | 1/17/65 | 578 | 28.6 | 290.4 | -25.3 | 5.2 | 54.787 | -64.3 | 5*22*33 | 23.9 | | | | | 891 | | | | | | |
| 8543 | 2 | 87.94 | 6*36* 2 | 1/17/65 | 578 | 28.6 | 290.4 | -25.1 | 5.2 | 54.781 | -60.9 | 7*11*33 | 35.5 | | | | | 891 | | | | | | |
| 8555 | 3 | 151.89 | 2* 4*50 | 1/18/65 | 579 | 28.8 | 289.8 | -23.2 | 5.5 | 54.710 | -71.1 | 2*23*33 | 18.7 | | | | | 892 | | | | | | |
| 8556 | 3 | 127.22 | 3*42*15 | 1/18/65 | 579 | 28.8 | 289.8 | -23.0 | 5.5 | 54.704 | -67.1 | 4* 3*23 | 21.3 | | | | | 892 | | | | | | |
| 8557 | 2 | 102.55 | 5*19*29 | 1/18/65 | 579 | 28.8 | 289.7 | -22.8 | 5.5 | 54.698 | -64.0 | 5*53*33 | 33.9 | | | | | 892 | | | | | | |
| 8558 | 2 | 77.88 | 6*57* 2 | 1/18/65 | 579 | 28.8 | 289.7 | -22.7 | 5.6 | 54.692 | -52.3 | 7*34*33 | 37.5 | | | | | 892 | | | | | | |
| 8566 | 1 | -115.48 | 19*56*15 | 1/18/65 | 579 | 28.9 | 289.3 | -21.4 | 5.8 | 54.645 | -72.1 | 20* 9*33 | 13.3 | | | | | 893 | | | | | | |
| 8570 | 3 | 141.80 | 2*25*51 | 1/19/65 | 580 | 29.0 | 289.1 | -20.8 | 5.9 | 54.622 | -63.9 | 2*45*33 | 19.7 | | | | | 893 | | | | | | |
| 8572 | 4 | 92.45 | 5*40*39 | 1/19/65 | 580 | 29.0 | 289.0 | -20.5 | 6.0 | 54.610 | -65.1 | 6*15*33 | 34.9 | | | | | 893 | | | | | | |
| 8585 | 3 | 131.73 | 2*46*51 | 1/20/65 | 581 | 29.2 | 288.6 | -18.4 | 6.3 | 54.534 | -71.0 | 3* 7*33 | 20.7 | | | | | 894 | | | | | | |
| 8587 | 2 | 82.39 | 6* 1*39 | 1/20/65 | 581 | 28.8 | 288.7 | -17.8 | 6.3 | 54.522 | -62.1 | 6*38*33 | 36.9 | | | | | 894 | | | | | | |
| 8596 | 2 | -139.64 | 20*38*15 | 1/20/65 | 581 | 27.2 | 288.3 | -15.5 | 6.1 | 54.470 | -76.7 | 20*49* 3 | 10.8 | | | | | 895 | | | | | | |
| 8599 | 1 | 146.34 | 1*30*27 | 1/21/65 | 582 | 26.7 | 288.3 | -14.7 | 6.2 | 54.452 | -50.9 | 2* 3* 3 | 32.6 | | | | | 895 | | | | | | |
| 8600 | 3 | 121.67 | 3* 7*51 | 1/21/65 | 582 | 26.5 | 288.3 | -14.4 | 6.1 | 54.446 | -53.3 | 3*30*33 | 22.7 | | | | | 895 | | | | | | |
| 8601 | 3 | 57.00 | 4*45*15 | 1/21/65 | 582 | 26.4 | 288.3 | -14.1 | 6.1 | 54.441 | -63.0 | 5*10*33 | 25.3 | | | | | 895 | | | | | | |
| 8659 | 2 | 106.09 | 2*54*26 | 1/25/65 | 586 | 17.1 | 288.6 | 2.6 | 6.0 | 54.105 | -32.9 | 3*29* 3 | 34.6 | | | | | 896 | | | | | | |
| 8660 | 2 | 81.42 | 4*31*50 | 1/25/65 | 586 | 16.9 | 288.6 | 2.9 | 5.9 | 54.099 | -49.0 | 5* 8*33 | 36.7 | | | | | 896 | | | | | | |
| 8667 | 1 | -51.28 | 15*53*38 | 1/25/65 | 586 | 15.8 | 288.5 | 4.9 | 5.9 | 54.059 | -87.7 | 16* 3* 3 | 9.4 | | | | | 897 | | | | | | |
| 8669 | 2 | -140.62 | 19* 8*26 | 1/25/65 | 586 | 14.5 | 289.0 | 6.0 | 5.9 | 54.047 | -63.7 | 19*19* 3 | 10.6 | | | | | 897 | | | | | | |

| READOUT | | | | | | | | | | ORBIT | | | | | TIME INTERVAL OF FILE ON FMR TAPE | | | | | | | FMR TAPE REEL NO. |
|--------------|------------|-------------------------|---------------|--------------------------------------|------------------|---------------------------|--------------------------------|----------------------------------|--------------------------------|----------------------|-------------------------------|----------|------------------------------|--------------------------------------|-----------------------------------|-----------------------------------|-----|--|--|--|--|----------------------------|
| ORBIT NO. | LGA STA | SATELLITE ORBITAL | | EQUATOR ASCENDING | | CROSSING AT NODE (AND) | | SPIN VECTOR | | ATTITUDE | | BEGIN | E N D | | | DROPOUTS, MINUTES W/R/T AND | | | | | | |
| | | EARTH LONGI (DEG) | LATI (DEG) | HOURS MINUTES SECONDS (GMT) | CALENDAR DATE | TIROS DAY | DECLI -NA -TION (DEG) | RIGHT ASCEN -TION (DEG) | MINI -MUM NADIR (DEG) | TOT (MIN. AND) | SPIN RATE (DEG /SEC) | | MINU -TES W/R/T AND | HOURS MINUTES SECONDS (GMT) | MINU -TES W/R/T AND | FROM- | TO- | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| 8844 | 2 | -138.03 | 15*13*25 | 2/ 6/65 | 598 | 37.9 | 324.4 | 19.9 | 26.0 | 53.051 | -72.5 | 15*20*33 | 7.1 | | | | 904 | | | | | |
| 8847 | 3 | 147.94 | 20* 5*37 | 2/ 6/65 | 598 | 37.9 | 324.4 | 19.9 | 26.1 | 53.034 | -53.9 | 20*25*33 | 19.9 | | | | 904 | | | | | |
| 8849 | 2 | 58.60 | 23*20*25 | 2/ 6/65 | 598 | 37.9 | 324.5 | 19.8 | 26.3 | 53.023 | -53.7 | 23*54*33 | 34.1 | | | | 904 | | | | | |
| 8857 | 1 | -58.76 | 12*19*37 | 2/ 7/65 | 599 | 37.8 | 325.1 | 19.6 | 26.8 | 52.977 | -78.0 | 12*31* 3 | 11.4 | | | | 905 | | | | | |
| 8858 | 2 | -123.43 | 13*57* 1 | 2/ 7/65 | 599 | 37.8 | 325.1 | 19.6 | 26.9 | 52.972 | -72.6 | 14* 3*33 | 6.5 | | | | 905 | | | | | |
| 8859 | 2 | -148.10 | 15*34*25 | 2/ 7/65 | 599 | 37.7 | 325.1 | 19.6 | 27.0 | 52.966 | -78.2 | 15*45* 3 | 10.6 | | | | 905 | | | | | |
| 8861 | 1 | 142.55 | 16*49*13 | 2/ 7/65 | 599 | 37.7 | 325.1 | 19.6 | 27.1 | 52.955 | -62.2 | 19*19*33 | 30.3 | | | | 905 | | | | | |
| 8864 | 2 | 58.54 | 23*41*25 | 2/ 7/65 | 599 | 37.7 | 325.2 | 19.4 | 27.2 | 52.938 | -31.1 | 0*16*33 | 35.1 | | | | 905 | | | | | |
| 8872 | 1 | -108.82 | 12*40*37 | 2/ 8/65 | 600 | 37.5 | 325.6 | 19.2 | 27.8 | 52.892 | -78.0 | 12*51*33 | 10.9 | | | | 906 | | | | | |
| 8873 | 2 | -133.49 | 14*18* 1 | 2/ 8/65 | 600 | 37.5 | 325.6 | 19.2 | 27.9 | 52.887 | -74.3 | 14*27* 3 | 9.0 | | | | 906 | | | | | |
| 8874 | 2 | -158.16 | 15*55*25 | 2/ 8/65 | 600 | 37.4 | 325.6 | 19.1 | 27.9 | 52.881 | -75.4 | 16* 7*33 | 12.1 | | | | 906 | | | | | |
| 8876 | 3 | 152.49 | 19*10*13 | 2/ 8/65 | 600 | 37.4 | 325.6 | 19.1 | 28.0 | 52.870 | -62.1 | 19*29*33 | 19.3 | | | | 906 | | | | | |
| 8878 | 2 | 103.15 | 22*25* 1 | 2/ 8/65 | 600 | 37.4 | 325.6 | 19.0 | 28.1 | 52.858 | -54.7 | 22*58*33 | 33.5 | | | | 906 | | | | | |
| 8888 | 2 | -143.55 | 14*39* 0 | 2/ 9/65 | 601 | 37.1 | 326.2 | 18.5 | 28.8 | 52.802 | -65.1 | 14*48*33 | 9.6 | | | | 907 | | | | | |
| 8892 | 3 | 117.75 | 21* 8*36 | 2/ 9/65 | 601 | 37.0 | 326.2 | 18.4 | 29.1 | 52.779 | -41.1 | 21*31*33 | 23.0 | | | | 907 | | | | | |
| 8893 | 2 | 93.08 | 22*40* 0 | 2/ 9/65 | 601 | 37.0 | 326.2 | 18.3 | 29.1 | 52.774 | -61.2 | 23*20*33 | 34.6 | | | | 907 | | | | | |
| 8902 | 2 | -128.95 | 13*22*36 | 2/10/65 | 602 | 36.7 | 326.6 | 17.9 | 29.7 | 52.723 | -66.8 | 13*31*33 | 9.0 | | | | 908 | | | | | |
| 8903 | 2 | -153.62 | 15* 0* 0 | 2/10/65 | 602 | 36.6 | 326.6 | 17.8 | 29.8 | 52.717 | -76.0 | 15*10*33 | 10.6 | | | | 908 | | | | | |
| 8908 | 2 | 83.02 | 23* 7* 0 | 2/10/65 | 602 | 36.5 | 326.6 | 17.5 | 30.1 | 52.689 | -56.4 | 23*43*33 | 36.6 | | | | 908 | | | | | |
| 8917 | 2 | -139.01 | 13*43*36 | 2/11/65 | 603 | 38.0 | 326.4 | 15.6 | 30.3 | 52.638 | -65.4 | 13*51*33 | 8.0 | | | | 909 | | | | | |
| 8918 | 2 | -143.68 | 15*21* 0 | 2/11/65 | 603 | 38.0 | 326.4 | 15.5 | 30.4 | 52.632 | -77.5 | 15*34*33 | 13.6 | | | | 909 | | | | | |
| 8921 | 3 | 122.30 | 20*13*12 | 2/11/65 | 603 | 38.1 | 326.4 | 15.1 | 30.5 | 52.615 | -63.1 | 20*35*33 | 22.4 | | | | 909 | | | | | |
| 8922 | 2 | 57.63 | 21*50*36 | 2/11/65 | 603 | 38.1 | 326.3 | 15.0 | 30.6 | 52.610 | -61.2 | 22*24*33 | 34.0 | | | | 909 | | | | | |
| 8934 | 3 | 161.58 | 17*19*23 | 2/12/65 | 604 | 38.9 | 325.9 | 13.5 | 31.0 | 52.537 | -53.0 | 17*39* 3 | 19.7 | | | | 910 | | | | | |
| 8936 | 3 | 112.24 | 20*34*11 | 2/12/65 | 604 | 38.9 | 325.8 | 13.2 | 31.1 | 52.526 | -51.0 | 20*57*33 | 23.4 | | | | 910 | | | | | |
| 8937 | 2 | 67.57 | 22*11*35 | 2/12/65 | 604 | 39.0 | 325.8 | 13.1 | 31.1 | 52.520 | -60.8 | 22*47*33 | 36.0 | | | | 910 | | | | | |

| READOUT | | | | | | | | | | | | | | ORBIT | | | | TIME INTERVAL OF FILE ON FMR TAPE | | | | | | FMR TAPE REEL NO. |
|--------------|------------|-----------------------------------|--------------------------------------|------------------|--------------|-------------|---------------|-----------------|---------------------------|----------------------------------|-------------------------------|-------|--------------------------------|----------------------|------------------------------|--------------------------------------|------------------------------|-----------------------------------|-----|--|--|--|--|----------------------------|
| ORBIT NO. | LDA STA | SATELLITE ORBITAL | | EQUATOR CROSSING | | AT (ANO) | SPIN (DEG) | VECTOR (DEG) | ATTITUDE | | SPIN RATE (DEG /SEC) | BEGIN | E N D | | | DROPOUTS, MINUTES W/R/T AND | | | | | | | | |
| | | EARTH LONGI- TUD E (DEG) | HOURS MINUTES SECONDS (GMT) | CALENDAR DATE | TIROS DAY | | | | DECLI- NATION (DEG) | RIGHT ASCEN- SION (DEG) | | | MINI- MUM NADIR (DEG) | TOT (MIN. AND) | MINU- TES W/R/T AND | HOURS MINUTES SECONDS (GMT) | MINU- TES W/R/T AND | FROM- | TO- | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| 8546 | 2 | -134.46 | 12*48*11 | 2/13/65 | 605 | 605 | 39.7 | 325.2 | 11.9 | 31.3 | 52.468 | -65.9 | 12*55*3 | 6.9 | | | | 911 | | | | | | |
| 8547 | 2 | -159.13 | 14*25*35 | 2/13/65 | 605 | 605 | 39.7 | 325.2 | 11.8 | 31.4 | 52.462 | -77.8 | 14*37*33 | 12.0 | | | | 911 | | | | | | |
| 8949 | 3 | 151.52 | 17*40*23 | 2/13/65 | 605 | 605 | 39.8 | 325.2 | 11.5 | 31.4 | 52.451 | -60.6 | 17*59*33 | 19.2 | | | | 911 | | | | | | |
| 8950 | 1 | 126.85 | 19*17*47 | 2/13/65 | 605 | 605 | 39.8 | 325.2 | 11.4 | 31.5 | 52.445 | -40.7 | 19*54*3 | 36.3 | | | | 911 | | | | | | |
| 8951 | 2 | 102.17 | 20*55*11 | 2/13/65 | 605 | 605 | 39.8 | 325.7 | 11.3 | 31.5 | 52.439 | -51.7 | 21*28*33 | 33.4 | | | | 911 | | | | | | |
| 8952 | 2 | 77.50 | 22*32*35 | 2/13/65 | 605 | 605 | 39.3 | 326.4 | 11.0 | 31.7 | 52.434 | -51.3 | 23*10*33 | 38.0 | | | | 911 | | | | | | |
| 8959 | 1 | -55.18 | 9*54*23 | 2/14/65 | 606 | 606 | 34.4 | 330.4 | 12.1 | 33.5 | 52.393 | -86.1 | 10*3*3 | 8.7 | | | | 912 | | | | | | |
| 8960 | 1 | -119.85 | 11*31*47 | 2/14/65 | 606 | 606 | 33.7 | 330.5 | 12.5 | 33.7 | 52.388 | -16.1 | 11*45*3 | 13.3 | | | | 912 | | | | | | |
| 8961 | 2 | -144.52 | 13*9*11 | 2/14/65 | 606 | 606 | 33.1 | 330.6 | 12.9 | 33.9 | 52.382 | -12.3 | 13*17*33 | 8.4 | | | | 912 | | | | | | |
| 8963 | 1 | 166.13 | 16*23*59 | 2/14/65 | 606 | 606 | 32.1 | 330.7 | 13.5 | 34.2 | 52.370 | -14.9 | 16*55*3 | 31.1 | | | | 912 | | | | | | |
| 8973 | 1 | -80.57 | 8*37*58 | 2/15/65 | 607 | 607 | 25.0 | 334.1 | 15.3 | 36.5 | 52.313 | -29.8 | 8*46*33 | 8.6 | | | | 913 | | | | | | |
| 8974 | 1 | -105.24 | 10*15*22 | 2/15/65 | 607 | 607 | 24.2 | 334.1 | 15.7 | 36.7 | 52.307 | -43.0 | 10*25*33 | 10.2 | | | | 913 | | | | | | |
| 8975 | 2 | -129.91 | 11*52*46 | 2/15/65 | 607 | 607 | 23.5 | 334.1 | 16.2 | 36.9 | 52.301 | -73.7 | 12*0*3 | 7.3 | | | | 913 | | | | | | |
| 8976 | 2 | -154.58 | 13*30*10 | 2/15/65 | 607 | 607 | 22.8 | 333.9 | 16.6 | 37.1 | 52.296 | -26.7 | 13*41*3 | 10.9 | | | | 913 | | | | | | |
| 9093 | 2 | -161.12 | 11*25*55 | 2/23/65 | 615 | 615 | -65.3 | 259.0 | 56.4 | 71.8 | 51.623 | -67.8 | 11*38*33 | 12.6 | | | | 914 | | | | | | |
| 9107 | 2 | -146.51 | 10*9*30 | 2/24/65 | 616 | 616 | -64.6 | 256.3 | 57.0 | 71.6 | 51.542 | -93.4 | 10*19*3 | 9.6 | | | | 915 | | | | | | |
| 9110 | 1 | 139.47 | 15*1*42 | 2/24/65 | 616 | 616 | -64.7 | 256.0 | 56.9 | 71.5 | 51.525 | -69.3 | 15*35*3 | 33.4 | | | | 915 | | | | | | |
| 9122 | 2 | -156.57 | 10*30*30 | 2/25/65 | 617 | 617 | -64.1 | 263.4 | 56.0 | 69.4 | 51.456 | -90.7 | 10*42*3 | 11.6 | | | | 916 | | | | | | |
| 9136 | 2 | -141.96 | 9*14*5 | 2/26/65 | 618 | 618 | -62.6 | 272.5 | 53.9 | 66.9 | 51.376 | -96.0 | 9*22*3 | 8.0 | | | | 917 | | | | | | |
| 9139 | 1 | 144.02 | 14*0*17 | 2/26/65 | 618 | 618 | -62.4 | 274.2 | 53.3 | 66.4 | 51.358 | -69.1 | 14*39*3 | 32.8 | | | | 917 | | | | | | |
| 9141 | 2 | 94.68 | 17*21*5 | 2/26/65 | 618 | 618 | -62.2 | 275.5 | 52.8 | 66.1 | 51.347 | -68.6 | 17*56*3 | 35.0 | | | | 917 | | | | | | |
| 9151 | 2 | -152.02 | 9*35*5 | 2/27/65 | 619 | 619 | -60.3 | 281.2 | 50.4 | 64.5 | 51.289 | -94.4 | 9*45*3 | 10.0 | | | | 918 | | | | | | |
| 9154 | 1 | 133.96 | 14*27*16 | 2/27/65 | 619 | 619 | -60.0 | 282.7 | 49.6 | 64.1 | 51.272 | -69.0 | 15*2*3 | 34.8 | | | | 918 | | | | | | |
| 9156 | 2 | 84.62 | 17*42*4 | 2/27/65 | 619 | 619 | -59.7 | 283.8 | 49.0 | 63.9 | 51.261 | -66.8 | 18*18*3 | 36.0 | | | | 918 | | | | | | |
| 9166 | 2 | -162.08 | 9*56*4 | 2/28/65 | 620 | 620 | -57.3 | 288.2 | 46.1 | 62.6 | 51.203 | -91.6 | 10*8*33 | 12.5 | | | | 919 | | | | | | |
| 9171 | 2 | 74.56 | 18*3*4 | 2/28/65 | 620 | 620 | -56.4 | 290.5 | 44.4 | 62.1 | 51.174 | -65.7 | 18*42*3 | 39.0 | | | | 919 | | | | | | |

| ORBIT NO. | CDA STA | HEADOUT | | | | | | | | | | ORBIT | | | | | | | | | | TIME INTERVAL OF FILE ON FMR TAPE | | | | | | | | | | FMR TAPE REFL NO. |
|-----------|---------|-------------------------------|------------------------------|---------|------|----------------------|-------------------------|-----------------------|-------------------------|-----------------------|----------------------|-----------------------------|---------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------------|-------|-----|--|--|--|--|--|--|--|-------------------|
| | | SATELLITE EQUATOR CROSSING AT | | | | | SPIN VECTOR ATTITUDE | | | | | BEGIN | | | | | E N D | | | | | DROPOUTS, MINUTES W/R/T AND | | | | | | | | | | |
| | | ORBITAL ASCENDING NODE (ANO) | | TIROS | | DATE | DECL -NA -TION (DEG) | | RIGHT ASCEN -SION (DEG) | MINI -MUM MADIR (DEG) | TOT (MIN. AFTER ANO) | SPIN RATE (DEG /SEC) | | MINU -TES W/R/T ANO | HOURS MINUTES SECONDS (GMT) | MINU -TES W/R/T ANO | HOURS MINUTES SECONDS (GMT) | MINU -TES W/R/T ANO | HOURS MINUTES SECONDS (GMT) | MINU -TES W/R/T ANO | HOURS MINUTES SECONDS (GMT) | FROM- | TO- | | | | | | | | | |
| | | EARTH LONGI -TIDE (DEG) | ORBITAL ASCENDING NODE (ANO) | TIROS | DATE | DECL -NA -TION (DEG) | RIGHT ASCEN -SION (DEG) | MINI -MUM MADIR (DEG) | TOT (MIN. AFTER ANO) | SPIN RATE (DEG /SEC) | MINU -TES W/R/T ANO | HOURS MINUTES SECONDS (GMT) | MINU -TES W/R/T ANO | HOURS MINUTES SECONDS (GMT) | MINU -TES W/R/T ANO | HOURS MINUTES SECONDS (GMT) | MINU -TES W/R/T ANO | HOURS MINUTES SECONDS (GMT) | MINU -TES W/R/T ANO | HOURS MINUTES SECONDS (GMT) | MINU -TES W/R/T ANO | HOURS MINUTES SECONDS (GMT) | FROM- | TO- | | | | | | | | |
| 9180 | 2 | -147.47 | 8*39*39 | 3/ 1/65 | 621 | -53.9 | 293.6 | 41.5 | 61.1 | 51.123 | -95.3 | 8*49*3 | 9.4 | | | | | | | | | | | 920 | | | | | | | | |
| 9183 | 1 | 138.51 | 13*31*51 | 3/ 1/65 | 621 | -53.3 | 294.7 | 40.4 | 60.8 | 51.105 | -69.7 | 14* 7* 3 | 35.2 | | | | | | | | | | | 920 | | | | | | | | |
| 9185 | 2 | 89.17 | 16*46*39 | 3/ 1/65 | 621 | -53.2 | 295.0 | 39.8 | 60.7 | 51.094 | -69.1 | 17*22*3 | 35.4 | | | | | | | | | | | 920 | | | | | | | | |
| 9200 | 2 | 75.68 | 17* 7*38 | 3/ 2/65 | 622 | -53.4 | 296.5 | 36.6 | 60.9 | 50.859 | -64.9 | 17*45*33 | 37.9 | | | | | | | | | | | 921 | | | | | | | | |
| 9211 | 1 | 167.70 | 10*59*2 | 3/ 3/65 | 623 | -53.4 | 297.4 | 34.4 | 61.1 | 50.777 | -74.8 | 11*29*27 | 30.4 | | | | | | | | | | | 922 | | | | | | | | |
| 9212 | 1 | 143.04 | 12*36*26 | 3/ 3/65 | 623 | -53.4 | 297.5 | 34.2 | 61.1 | 50.770 | -5.7 | 13* 9*33 | 33.1 | | | | | | | | | | | 922 | | | | | | | | |
| 9214 | 2 | 53.69 | 15*51*14 | 3/ 3/65 | 623 | -53.5 | 297.7 | 33.8 | 61.1 | 50.756 | -62.2 | 16*24*33 | 33.3 | | | | | | | | | | | 922 | | | | | | | | |
| 9226 | 1 | 157.65 | 11*20*1 | 3/ 4/65 | 624 | -53.5 | 298.7 | 31.5 | 61.2 | 50.675 | -72.0 | 11*52*33 | 32.5 | | | | | | | | | | | 923 | | | | | | | | |
| 9227 | 1 | 132.97 | 12*57*25 | 3/ 4/65 | 624 | -53.5 | 299.0 | 31.2 | 61.3 | 50.668 | -55.7 | 13*32*33 | 35.1 | | | | | | | | | | | 923 | | | | | | | | |
| 9229 | 2 | 83.63 | 16*12*13 | 3/ 4/65 | 624 | -53.2 | 299.3 | 30.7 | 61.3 | 50.655 | -68.2 | 16*48*33 | 36.3 | | | | | | | | | | | 923 | | | | | | | | |
| 9239 | 2 | -163.66 | 8*26*13 | 3/ 5/65 | 625 | -52.0 | 299.9 | 28.4 | 61.0 | 50.588 | -91.2 | 8*39*33 | 13.3 | | | | | | | | | | | 924 | | | | | | | | |
| 9241 | 1 | 147.58 | 11*41*1 | 3/ 5/65 | 625 | -51.9 | 300.0 | 28.0 | 61.0 | 50.575 | -70.6 | 12*13*33 | 32.5 | | | | | | | | | | | 924 | | | | | | | | |
| 9243 | 2 | 58.24 | 14*55*48 | 3/ 5/65 | 625 | -51.6 | 300.1 | 27.6 | 61.0 | 50.561 | -69.4 | 15*29*33 | 33.8 | | | | | | | | | | | 924 | | | | | | | | |
| 9253 | 2 | -148.45 | 7* 9*48 | 3/ 6/65 | 626 | -50.3 | 300.0 | 25.7 | 60.7 | 50.495 | -93.6 | 7*19*33 | 9.8 | | | | | | | | | | | 925 | | | | | | | | |
| 9255 | 1 | 162.19 | 10*24*36 | 3/ 6/65 | 626 | -50.1 | 300.1 | 25.3 | 60.7 | 50.482 | -17.9 | 10*55*33 | 31.0 | | | | | | | | | | | 925 | | | | | | | | |
| 9256 | 1 | 137.52 | 12* 2* 0 | 3/ 6/65 | 626 | -50.0 | 300.1 | 25.1 | 60.7 | 50.476 | -60.6 | 12*35*33 | 33.6 | | | | | | | | | | | 925 | | | | | | | | |
| 9258 | 2 | 88.18 | 15*16*48 | 3/ 6/65 | 626 | -49.8 | 300.2 | 24.7 | 60.7 | 50.463 | -67.6 | 15*52*33 | 35.8 | | | | | | | | | | | 925 | | | | | | | | |
| 9267 | 2 | -133.85 | 5*53*23 | 3/ 7/65 | 627 | -48.5 | 300.1 | 22.8 | 60.5 | 50.404 | -96.7 | 6* 0*33 | 7.2 | | | | | | | | | | | 926 | | | | | | | | |
| 9268 | 2 | -158.51 | 7*30*47 | 3/ 7/65 | 627 | -48.4 | 300.2 | 22.6 | 60.5 | 50.398 | -76.9 | 7*42*33 | 11.8 | | | | | | | | | | | 926 | | | | | | | | |
| 9270 | 1 | 152.13 | 10*45*35 | 3/ 7/65 | 627 | -48.2 | 300.2 | 22.2 | 60.5 | 50.385 | -72.0 | 11*17*33 | 32.0 | | | | | | | | | | | 926 | | | | | | | | |
| 9271 | 1 | 127.46 | 12*22*59 | 3/ 7/65 | 627 | -48.1 | 300.3 | 22.0 | 60.5 | 50.378 | -50.9 | 12*58*33 | 35.6 | | | | | | | | | | | 926 | | | | | | | | |
| 9272 | 2 | 102.79 | 14* 0*23 | 3/ 7/65 | 627 | -48.0 | 300.3 | 21.8 | 60.5 | 50.372 | -46.9 | 14*33*33 | 33.2 | | | | | | | | | | | 926 | | | | | | | | |
| 9273 | 2 | 78.12 | 15*37*47 | 3/ 7/65 | 627 | -47.9 | 300.2 | 21.6 | 60.5 | 50.366 | -57.9 | 16*15*33 | 37.8 | | | | | | | | | | | 926 | | | | | | | | |
| 9282 | 2 | -143.90 | 6*14*22 | 3/ 8/65 | 628 | -46.6 | 300.0 | 19.8 | 60.3 | 50.308 | -96.2 | 6*22*33 | 8.2 | | | | | | | | | | | 927 | | | | | | | | |
| 9284 | 1 | 166.75 | 9*29*10 | 3/ 8/65 | 628 | -46.4 | 300.0 | 19.4 | 60.3 | 50.296 | -74.2 | 9*59*3 | 29.9 | | | | | | | | | | | 927 | | | | | | | | |
| 9285 | 1 | 142.07 | 11* 6*34 | 3/ 8/65 | 628 | -46.3 | 300.1 | 19.2 | 60.3 | 50.290 | 25.0 | 11*41*3 | 34.5 | | | | | | | | | | | 927 | | | | | | | | |

| READOUT | | | | | | | | | | ORBIT | | | | | TIME INTERVAL OF FILE ON FMR TAPE | | | | | | |
|-----------|---------|-------------------|------------|---------------------|----------|-------------|-------------------|-----------------------|------------------|----------------------|-------|----------------------|----------------|-----------------------------|-----------------------------------|-----------|-------------------|--|--|--|--|
| ORBIT NO. | CDA STA | SATELLITE ORBITAL | | EQUATOR CROSSING AT | | SPIN VECTOR | | ATTITUDE | | SPIN RATE (DEG /SEC) | BEGIN | E N D | | | DROPOUTS, MINUTES | | FMR TAPE REEL NO. | | | | |
| | | LONGI (DEG) | TIME (GMT) | DATE | CALENDAR | TIROS DAY | DECLINATION (DEG) | RIGHT ASCENSION (DEG) | MINI-NADIR (DEG) | | | TUT (MIN. AFTER AND) | MINU W/R/T AND | HOURS MINUTES SECONDS (GMT) | MINU W/R/T AND | FROM- TO- | | | | | |
| 9287 | 2 | 92.73 | 14*21*22 | 3/ 8/65 | 628 | -46.1 | 30.0 | 18.7 | 60.3 | 50.277 | -38.2 | 14*57* 3 | 35.7 | | | | 927 | | | | |
| 9296 | 2 | -129.31 | 4*57*58 | 3/ 9/65 | 629 | -44.8 | 299.8 | 16.9 | 60.1 | 50.221 | -64.9 | 5* 4*33 | 6.6 | | | | 928 | | | | |
| 9297 | 2 | -153.58 | 6*35*22 | 3/ 9/65 | 629 | -44.7 | 299.8 | 16.7 | 60.1 | 50.215 | -79.0 | 6*46* 3 | 10.7 | | | | 928 | | | | |
| 9299 | 1 | 156.67 | 9*50*10 | 3/ 9/65 | 629 | -44.5 | 299.8 | 16.3 | 60.1 | 50.203 | -62.8 | 10*21*33 | 31.4 | | | | 928 | | | | |
| 9302 | 2 | 82.66 | 14*42*21 | 3/ 9/65 | 629 | -44.1 | 299.8 | 15.6 | 60.1 | 50.184 | -38.5 | 15*18*33 | 36.2 | | | | 928 | | | | |
| 9311 | 2 | -139.37 | 5*18*57 | 3/10/65 | 630 | -42.7 | 299.5 | 13.7 | 59.9 | 50.130 | -65.3 | 5*26*33 | 7.6 | | | | 929 | | | | |
| 9314 | 1 | 146.61 | 10*11* 9 | 3/10/65 | 630 | -42.4 | 299.5 | 13.0 | 59.9 | 50.112 | 18.2 | 10*43*33 | 32.4 | | | | 929 | | | | |
| 9316 | 2 | 57.27 | 13*25*57 | 3/10/65 | 630 | -42.1 | 299.5 | 12.5 | 59.9 | 50.100 | -51.7 | 14* 2* 3 | 36.1 | | | | 929 | | | | |
| 9326 | 2 | -149.43 | 5*39*56 | 3/11/65 | 631 | -40.5 | 299.4 | 10.2 | 59.8 | 50.041 | -53.7 | 5*49*33 | 9.6 | | | | 930 | | | | |
| 9328 | 1 | 161.22 | 8*54*44 | 3/11/65 | 631 | -40.3 | 299.4 | 9.7 | 59.9 | 50.029 | -62.0 | 9*25*33 | 30.8 | | | | 930 | | | | |
| 9329 | 1 | 136.55 | 10*32* 8 | 3/11/65 | 631 | -40.2 | 299.4 | 9.5 | 59.9 | 50.023 | -52.0 | 11* 5*32 | 33.4 | | | | 930 | | | | |
| 9330 | 2 | 111.88 | 12* 9*32 | 3/11/65 | 631 | -40.0 | 299.4 | 9.2 | 59.9 | 50.018 | -49.4 | 12*43* 3 | 33.5 | | | | 930 | | | | |
| 9331 | 2 | 67.21 | 13*46*56 | 3/11/65 | 631 | -39.9 | 299.4 | 9.0 | 59.9 | 50.012 | -50.8 | 14*23*33 | 36.6 | | | | 930 | | | | |
| 9343 | 1 | 151.16 | 9*15*43 | 3/12/65 | 632 | -37.9 | 298.4 | 6.5 | 59.7 | 49.944 | -61.9 | 9*47*33 | 31.8 | | | | 931 | | | | |
| 9344 | 1 | 126.49 | 10*53* 7 | 3/12/65 | 632 | -37.8 | 298.3 | 6.3 | 59.7 | 49.938 | -52.6 | 11*28*33 | 35.4 | | | | 931 | | | | |
| 9345 | 2 | 101.82 | 12*30*31 | 3/12/65 | 632 | -37.6 | 298.1 | 6.1 | 59.7 | 49.933 | -49.9 | 13* 4* 3 | 33.5 | | | | 931 | | | | |
| 9346 | 2 | 77.15 | 14* 7*55 | 3/12/65 | 632 | -37.5 | 297.9 | 6.0 | 59.7 | 49.927 | -51.1 | 14*45*33 | 37.6 | | | | 931 | | | | |
| 9355 | 2 | -144.88 | 4*44*31 | 3/13/65 | 633 | -35.8 | 297.6 | 3.9 | 59.6 | 49.878 | -63.5 | 4*52*33 | 8.0 | | | | 932 | | | | |
| 9357 | 1 | 165.77 | 7*59*18 | 3/13/65 | 633 | -35.6 | 297.6 | 3.4 | 59.6 | 49.867 | -63.8 | 8*29*33 | 30.3 | | | | 932 | | | | |
| 9358 | 1 | 141.10 | 9*36*42 | 3/13/65 | 633 | -35.5 | 297.5 | 3.2 | 59.6 | 49.861 | -52.3 | 10* 9*33 | 32.9 | | | | 932 | | | | |
| 9359 | 2 | 116.43 | 11*14* 6 | 3/13/65 | 633 | -35.4 | 297.3 | 3.0 | 59.6 | 49.856 | -52.4 | 11*47*58 | 33.9 | | | | 932 | | | | |
| 9360 | 2 | 51.76 | 12*51*30 | 3/13/65 | 633 | -35.2 | 297.2 | 2.9 | 59.6 | 49.851 | -51.0 | 13*26*33 | 35.1 | | | | 932 | | | | |
| 9369 | 2 | -130.27 | 3*28* 6 | 3/14/65 | 634 | -33.7 | 297.3 | 0.7 | 59.5 | 49.803 | -65.6 | 3*37* 3 | 9.0 | | | | 933 | | | | |
| 9374 | 2 | 106.37 | 11*35* 5 | 3/14/65 | 634 | -34.3 | 298.0 | -0.8 | 59.7 | 49.777 | -47.1 | 12*12* 3 | 37.0 | | | | 933 | | | | |
| 9375 | 2 | 61.70 | 13*12*29 | 3/14/65 | 634 | -35.2 | 298.3 | -0.7 | 59.9 | 49.772 | -48.5 | 13*49*33 | 37.1 | | | | 933 | | | | |
| 9384 | 2 | -140.33 | 2*49* 5 | 3/15/65 | 635 | -40.0 | 303.8 | -1.6 | 62.1 | 49.726 | -64.3 | 3*59* 3 | 10.0 | | | | 934 | | | | |

| ORBIT NO. | GCA STA | HEADOUT | | | | | | | | | | ORBIT | | | | | | | | | | TIME INTERVAL OF FILE ON FMR TAPE | | | | | | FMR TAPE REEL NO. |
|--------------|------------|-----------|------------------------------------|--------------------------------------|------------------|--------------|--------------------------|-----------------------------------|---------------------------------|----------------------|-------------------------------|-------------------------------|--------------------------------------|-------------------------------|--------------------------------------|-------------------------------|-----|-----|-----|-----|-----|-----------------------------------|-----|-----------------------------------|--|--|--|----------------------------|
| | | SATELLITE | | EQUATOR | | CROSSING | | AT | | SPIN | | VECTOR | | ATTITUDE | | BEGIN | | E | | N | | D | | DROPOUTS, MINUTES W/R/T AND | | | | |
| | | ORBITAL | EARTH LONGI- TITUDE (DEG) | HOURS MINUTES SECONDS (GMT) | CALENDAR DATE | TIROS DAY | DECLI- -TION (DEG) | RIGHT ASCEN- -SION (DEG) | MINI- -MUM NADIR (DEG) | TOT (MIN. AND) | SPIN RATE (DEG /SEC) | MINU- -TES W/R/T AND | HOURS MINUTES SECONDS (GMT) | MINU- -TES W/R/T AND | HOURS MINUTES SECONDS (GMT) | MINU- -TES W/R/T AND | TO- | TO- | TO- | TO- | TO- | TO- | TO- | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9387 | 1 | 145.65 | 8*41*17 | 3/15/65 | 635 | -41.2 | 304.5 | -1.8 | 62.6 | 49.712 | -24.4 | 9*14*33 | 33.3 | | | | | | | | | | | 934 | | | | |
| 9388 | 3 | 120.58 | 10*18*41 | 3/15/65 | 635 | -41.7 | 304.8 | -1.6 | 62.7 | 49.707 | -48.6 | 10*41*33 | 22.9 | | | | | | | | | | | 934 | | | | |
| 9389 | 2 | 96.31 | 11*56*5 | 3/15/65 | 635 | -41.4 | 306.3 | -2.8 | 62.8 | 49.702 | -61.5 | 12*30*33 | 34.5 | | | | | | | | | | | 934 | | | | |
| 9397 | 1 | -101.06 | 1*55*16 | 3/16/65 | 636 | -47.3 | 313.6 | -2.2 | 65.3 | 49.663 | -78.4 | 1*6*3 | 10.8 | | | | | | | | | | | 935 | | | | |
| 9398 | 2 | -125.73 | 2*32*40 | 3/16/65 | 636 | -47.7 | 314.1 | -2.2 | 65.5 | 49.658 | -74.5 | 2*40*3 | 7.4 | | | | | | | | | | | 935 | | | | |
| 9399 | 2 | -150.40 | 4*10*4 | 3/16/65 | 636 | -48.1 | 314.7 | -2.2 | 65.7 | 49.654 | -78.3 | 4*20*33 | 10.5 | | | | | | | | | | | 935 | | | | |
| 9402 | 1 | 135.58 | 9*2*16 | 3/16/65 | 636 | -49.6 | 316.1 | -1.9 | 66.2 | 49.640 | -51.2 | 9*36*33 | 34.3 | | | | | | | | | | | 935 | | | | |
| 9403 | 2 | 110.91 | 10*39*40 | 3/16/65 | 636 | -50.3 | 316.9 | -1.6 | 66.4 | 49.635 | -50.0 | 11*13*3 | 33.4 | | | | | | | | | | | 935 | | | | |
| 9411 | 1 | -86.45 | 23*38*51 | 3/16/65 | 636 | -54.2 | 328.8 | -1.4 | 68.9 | 49.598 | -77.5 | 23*48*3 | 9.2 | | | | | | | | | | | 936 | | | | |
| 9412 | 1 | -111.12 | 1*16*15 | 3/17/65 | 637 | -54.3 | 329.9 | -1.6 | 69.2 | 49.594 | -75.2 | 1*78*3 | 11.8 | | | | | | | | | | | 936 | | | | |
| 9413 | 2 | -135.79 | 2*53*39 | 3/17/65 | 637 | -54.3 | 330.9 | -1.8 | 69.4 | 49.597 | -70.8 | 3*2*3 | 8.4 | | | | | | | | | | | 936 | | | | |
| 9414 | 2 | -160.46 | 4*31*3 | 3/17/65 | 637 | -54.4 | 331.8 | -2.0 | 69.6 | 49.591 | -76.1 | 4*43*3 | 12.0 | | | | | | | | | | | 936 | | | | |
| 9416 | 1 | 150.19 | 7*45*51 | 3/17/65 | 637 | -54.7 | 333.4 | -2.2 | 70.1 | 49.580 | -37.3 | 8*17*33 | 31.7 | | | | | | | | | | | 936 | | | | |
| 9418 | 2 | 100.85 | 11*6*39 | 3/17/65 | 637 | -55.4 | 335.8 | -2.0 | 70.4 | 49.568 | -47.7 | 11*35*3 | 34.4 | | | | | | | | | | | 936 | | | | |
| 9426 | 1 | -56.51 | 23*59*50 | 3/17/65 | 637 | -54.9 | 349.6 | -3.0 | 72.8 | 49.522 | -76.1 | 0*11*3 | 11.2 | | | | | | | | | | | 937 | | | | |
| 9427 | 1 | -121.18 | 1*37*14 | 3/18/65 | 638 | -54.6 | 350.5 | -3.3 | 73.0 | 49.516 | -73.1 | 1*51*33 | 14.3 | | | | | | | | | | | 937 | | | | |
| 9428 | 2 | -145.85 | 3*14*38 | 3/18/65 | 638 | -54.2 | 351.4 | -3.6 | 73.3 | 49.510 | -68.9 | 3*25*3 | 10.4 | | | | | | | | | | | 937 | | | | |
| 9431 | 1 | 140.13 | 8*6*50 | 3/18/65 | 638 | -53.8 | 353.8 | -4.2 | 73.7 | 49.493 | 12.4 | 8*40*33 | 33.7 | | | | | | | | | | | 937 | | | | |
| 9432 | 2 | 115.46 | 9*44*14 | 3/18/65 | 638 | -53.7 | 355.1 | -4.2 | 74.0 | 49.487 | -50.2 | 10*17*3 | 32.8 | | | | | | | | | | | 937 | | | | |
| 9440 | 1 | -81.89 | 22*43*26 | 3/18/65 | 638 | -51.9 | 7.2 | -4.0 | 76.4 | 49.440 | -71.5 | 22*51*33 | 8.1 | | | | | | | | | | | 938 | | | | |
| 9441 | 1 | -106.57 | 0*20*50 | 3/19/65 | 639 | -51.5 | 8.2 | -4.0 | 76.7 | 49.434 | -75.5 | 0*32*3 | 11.2 | | | | | | | | | | | 938 | | | | |
| 9442 | 2 | -131.24 | 1*58*14 | 3/19/65 | 639 | -51.3 | 9.0 | -4.2 | 76.9 | 49.428 | -71.5 | 2*6*3 | 7.8 | | | | | | | | | | | 938 | | | | |
| 9443 | 2 | -155.91 | 3*35*37 | 3/19/65 | 639 | -51.0 | 9.7 | -4.2 | 77.1 | 49.422 | -78.2 | 3*47*3 | 11.4 | | | | | | | | | | | 938 | | | | |
| 9447 | 2 | 105.40 | 10*5*13 | 3/19/65 | 639 | -50.4 | 12.9 | -3.9 | 77.8 | 49.398 | -55.3 | 10*39*3 | 33.8 | | | | | | | | | | | 938 | | | | |
| 9455 | 1 | -91.56 | 23*4*25 | 3/19/65 | 639 | -46.0 | 22.3 | -3.6 | 80.1 | 49.350 | -78.4 | 23*14*3 | 9.6 | | | | | | | | | | | 939 | | | | |
| 9456 | 1 | -116.63 | 0*41*49 | 3/20/65 | 640 | -45.3 | 23.0 | -3.8 | 80.4 | 49.344 | -73.8 | 0*55*3 | 13.2 | | | | | | | | | | | 939 | | | | |

| READOUT | | | | | | | | | | ORBIT | | | | TIME INTERVAL OF FILE ON FMR TAPE | | | | | | FMR TAPE REEL NO. |
|--------------|------------|---|---|------------------------|------|--------------|----------------------------------|-----------------------------------|----------------------------------|-------------------------------|-------|-------------------------------|-------------------------------|--------------------------------------|-----------------------------------|-----|-----|--|--|----------------------------|
| ORBIT NO. | CDA STA | SATELLITE EQUATOR CROSSING AT | | | SPIN | VECTOR | | ATTITUDE | | SPIN RATE (DEG /SEC) | BEGIN | E N D | | | DROPOUTS, MINUTES W/R/T AND | | | | | |
| | | SATELLITE EARTH LONGI- TITUDE (DEG) | ASCENDING HOURS MINUTES SECONDS (GMT) | CROSSING NODE (LNO) | | TURNS DAY | DECLI- -NA- -TION (DEG) | RIGHT ASCEN- -TION (DEG) | MINI- -NUM- -ADIR (DEG) | | | TOT (MIN. AFTER AND) | MINU- -TES W/R/T AND | HOURS MINUTES SECONDS (GMT) | MINU- -TES W/R/T AND | TO- | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| 9457 | 2 | -141.30 | 2*19*13 | 3/20/65 | 640 | -44.8 | 23.4 | -4.0 | 80.6 | 49.338 | -70.9 | 2*28*3 | 8.8 | | | | 939 | | | |
| 9459 | 1 | 165.35 | 5*34*0 | 3/20/65 | 640 | -43.9 | 24.1 | -4.3 | 81.0 | 49.326 | -73.5 | 6*5*3 | 31.1 | | | | 939 | | | |
| 9462 | 2 | 55.34 | 10*26*12 | 3/20/65 | 640 | -42.5 | 25.9 | -4.4 | 81.5 | 49.308 | 22.0 | 11*1*3 | 34.9 | | | | 939 | | | |
| 9475 | 1 | 134.62 | 7*32*23 | 3/21/65 | 641 | -32.5 | 31.6 | -6.9 | 84.9 | 49.229 | 23.4 | 8*7*3 | 34.7 | | | | 940 | | | |
| 9476 | 2 | 109.85 | 9*9*47 | 3/21/65 | 641 | -31.9 | 31.9 | -7.0 | 85.0 | 49.223 | 24.0 | 9*42*3 | 32.8 | | | | 940 | | | |
| 9477 | 2 | 85.28 | 10*47*11 | 3/21/65 | 641 | -31.1 | 32.5 | -7.1 | 85.2 | 49.217 | 24.2 | 11*23*3 | 35.9 | | | | 940 | | | |
| 9485 | 1 | -112.07 | 23*46*23 | 3/21/65 | 641 | -23.2 | 34.6 | -9.3 | 87.6 | 49.168 | -24.1 | 23*59*3 | 12.7 | | | | 941 | | | |
| 9487 | 2 | -161.42 | 3*1*11 | 3/22/65 | 642 | -21.7 | 34.3 | -10.3 | 88.0 | 49.156 | -75.6 | 3*13*33 | 12.4 | | | | 941 | | | |
| 9490 | 1 | 124.56 | 7*53*22 | 3/22/65 | 642 | -19.8 | 33.9 | -11.4 | 88.4 | 49.137 | -65.1 | 8*30*33 | 37.2 | | | | 941 | | | |
| 9491 | 2 | 55.89 | 9*30*46 | 3/22/65 | 642 | -19.1 | 34.1 | -11.6 | 88.6 | 49.131 | -48.3 | 10*4*33 | 33.8 | | | | 941 | | | |
| 9499 | 1 | -57.46 | 22*29*58 | 3/22/65 | 642 | -11.2 | 35.0 | -13.9 | 90.8 | 49.082 | -91.9 | 22*40*3 | 10.1 | | | | 942 | | | |
| 9500 | 1 | -122.15 | 0*7*22 | 3/23/65 | 643 | -10.3 | 34.8 | -14.4 | 91.1 | 49.076 | -75.2 | 0*21*33 | 14.2 | | | | 942 | | | |
| 9501 | 2 | -146.83 | 1*44*46 | 3/23/65 | 643 | -9.6 | 34.5 | -14.9 | 91.2 | 49.070 | -70.9 | 1*54*3 | 9.3 | | | | 942 | | | |
| 9503 | 1 | 163.82 | 4*59*33 | 3/23/65 | 643 | -8.2 | 33.9 | -15.9 | 91.6 | 49.057 | -64.2 | 5*30*33 | 31.0 | | | | 942 | | | |
| 9506 | 2 | 89.81 | 9*51*45 | 3/23/65 | 643 | -6.1 | 33.6 | -16.9 | 92.0 | 49.039 | -56.1 | 10*27*33 | 35.8 | | | | 942 | | | |
| 9513 | 1 | -82.87 | 21*13*33 | 3/23/65 | 643 | 1.1 | 33.8 | -19.2 | 94.0 | 48.995 | -89.4 | 21*21*33 | 8.0 | | | | 943 | | | |
| 9514 | 1 | -107.54 | 22*50*57 | 3/23/65 | 643 | 2.0 | 33.5 | -19.6 | 94.3 | 48.989 | -77.2 | 23*2*3 | 11.1 | | | | 943 | | | |
| 9515 | 2 | -132.21 | 0*28*23 | 3/24/65 | 644 | 3.0 | 33.0 | -20.4 | 94.5 | 48.983 | -72.4 | 0*36*3 | 7.7 | | | | 943 | | | |
| 9516 | 2 | -156.88 | 2*5*45 | 3/24/65 | 644 | 3.7 | 32.7 | -20.9 | 94.7 | 48.977 | -77.2 | 2*16*33 | 10.8 | | | | 943 | | | |
| 9519 | 1 | 129.10 | 6*57*56 | 3/24/65 | 644 | 5.7 | 31.5 | -22.4 | 95.1 | 48.958 | -51.6 | 7*33*33 | 35.6 | | | | 943 | | | |
| 9520 | 2 | 104.42 | 8*35*20 | 3/24/65 | 644 | 6.5 | 31.3 | -22.8 | 95.3 | 48.952 | -50.2 | 9*9*3 | 33.7 | | | | 943 | | | |
| 9521 | 2 | 79.75 | 10*12*44 | 3/24/65 | 644 | 7.4 | 31.3 | -23.2 | 95.5 | 48.946 | -51.9 | 10*50*3 | 37.3 | | | | 943 | | | |
| 9528 | 1 | -52.93 | 21*34*32 | 3/24/65 | 644 | 14.7 | 30.5 | -26.0 | 0.2 | 48.902 | -87.0 | 21*44*3 | 9.5 | | | | 944 | | | |
| 9529 | 1 | -117.60 | 23*11*56 | 3/24/65 | 644 | 15.7 | 30.1 | -26.5 | 0.4 | 48.896 | -75.5 | 23*24*33 | 12.6 | | | | 944 | | | |
| 9544 | 2 | -127.66 | 23*32*55 | 3/25/65 | 645 | 28.6 | 25.3 | -33.3 | 4.1 | 48.803 | -79.9 | 23*40*3 | 7.1 | | | | 945 | | | |
| 9545 | 2 | -152.33 | 1*10*19 | 3/26/65 | 646 | 28.9 | 25.0 | -33.3 | 4.2 | 48.797 | -78.7 | 1*20*3 | 9.7 | | | | 945 | | | |

| READOUT | | | | | | | | | | | | | | ORBIT | | | | | | | | | | TIME INTERVAL OF FILE ON FMR TAPE | | | | | FMR TAPE REEL NO. | |
|--------------|------------|---|---------------------------|------------------|-------------|---------------------------------|-----------------------------------|---------------------------------|----------------------|-------------------------------|--------------------------------------|-------------------------------|-------------------------------|-------|--|-----|--|--|-----------------------------------|--|--|--|--|-----------------------------------|--|--|--|--|----------------------------|-----|
| ORBIT NO. | CUA STA | SATELLITE EQUATOR CROSSING AT CRITICAL ASCENDING NODE (LAND) | | | | SPIN VECTOR | | | ATTITUDE | | | SPIN RATE (DEG /SEC) | BEGIN | | | END | | | DROPOUTS, MINUTES W/R/T AND | | | | | | | | | | | |
| | | EARTH LONGI- TUD E (DEG) | HOURS MINUTES (GMT) | CALENDAR DATE | TIME DAY | DECLI- -NA- TION (DEG) | RIGHT ASCEN- -SION (DEG) | MINI- -NUM NADIR (DEG) | TOY (MIN. AND) | MINU- -TES W/R/T AND | HOURS MINUTES SECONDS (GMT) | | MINU- -TES W/R/T AND | TO- | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9548 | 1 | 133.65 | 6* 2*31 | 3/26/65 | 646 | 29.6 | 24.2 | -33.6 | 4.5 | 48.778 | -48.4 | 6*17*33 | 35.0 | | | | | | | | | | | | | | | | | 945 |
| 9549 | 2 | 108.58 | 7*39*55 | 3/26/65 | 646 | 29.8 | 24.0 | -33.7 | 4.5 | 48.772 | -49.5 | 8*13* 3 | 33.1 | | | | | | | | | | | | | | | | | 945 |
| 9550 | 2 | 84.31 | 5*17*19 | 3/26/65 | 646 | 30.2 | 23.8 | -33.8 | 4.6 | 48.766 | -51.1 | 9*54*33 | 37.2 | | | | | | | | | | | | | | | | | 945 |
| 9578 | 2 | 113.53 | 6*44*26 | 3/28/65 | 648 | 37.2 | 19.7 | -33.7 | 7.0 | 48.592 | -70.8 | 7*17*33 | 33.1 | | | | | | | | | | | | | | | | | 946 |
| 9608 | 2 | 53.20 | 7*26*26 | 3/37/65 | 650 | 43.5 | 14.5 | -33.6 | 9.2 | 67.154 | -61.1 | 8* 1*33 | 35.1 | | | | | | | | | | | | | | | | | 947 |
| 9617 | 2 | -128.83 | 22* 3* 1 | 3/30/65 | 650 | 44.9 | 13.0 | -33.2 | 9.7 | 67.099 | -82.1 | 22*11* 3 | 8.0 | | | | | | | | | | | | | | | | | 948 |
| 9618 | 2 | -153.50 | 23*40*25 | 3/37/65 | 650 | 45.0 | 12.8 | -33.3 | 9.8 | 67.093 | -78.1 | 23*51* 3 | 10.6 | | | | | | | | | | | | | | | | | 948 |
| 9620 | 1 | 157.15 | 2*55*13 | 3/31/65 | 651 | 45.3 | 12.4 | -33.3 | 9.9 | 67.081 | -63.7 | 3*26*33 | 31.3 | | | | | | | | | | | | | | | | | 948 |
| 9622 | 2 | 107.80 | 6*10* 1 | 3/31/65 | 651 | 45.6 | 12.1 | -33.3 | 10.0 | 67.068 | -41.4 | 6*42*33 | 32.5 | | | | | | | | | | | | | | | | | 948 |
| 9623 | 2 | 83.14 | 7*47*25 | 3/31/65 | 651 | 45.8 | 12.0 | -33.2 | 10.0 | 67.062 | -51.5 | 8*23*33 | 36.1 | | | | | | | | | | | | | | | | | 948 |
| 9630 | 1 | -89.56 | 19* 9*12 | 3/31/65 | 651 | 46.9 | 11.0 | -32.9 | 10.4 | 67.019 | -88.1 | 19*17*33 | 8.4 | | | | | | | | | | | | | | | | | 949 |
| 9631 | 1 | -114.23 | 20*46*36 | 3/31/65 | 651 | 47.0 | 10.8 | -32.9 | 10.4 | 67.013 | -66.3 | 20*59* 3 | 12.5 | | | | | | | | | | | | | | | | | 949 |
| 9632 | 2 | -138.90 | 22*24* 0 | 3/31/65 | 651 | 47.2 | 10.5 | -32.9 | 10.5 | 67.007 | -73.0 | 22*32* 3 | 8.1 | | | | | | | | | | | | | | | | | 949 |
| 9633 | 2 | -163.57 | 0* 1*24 | 4/ 1/65 | 652 | 47.3 | 10.3 | -32.9 | 10.5 | 67.001 | -76.3 | 0*14*33 | 13.2 | | | | | | | | | | | | | | | | | 949 |
| 9635 | 3 | 147.06 | 3*16*12 | 4/ 1/65 | 652 | 47.6 | 9.9 | -33.0 | 10.6 | 66.988 | -59.9 | 3*35*33 | 19.4 | | | | | | | | | | | | | | | | | 949 |
| 9636 | 3 | 122.41 | 4*53*35 | 4/ 1/65 | 652 | 47.8 | 9.7 | -33.0 | 10.7 | 66.982 | -64.3 | 5*15*33 | 22.0 | | | | | | | | | | | | | | | | | 949 |
| 9637 | 2 | 97.74 | 6*30*59 | 4/ 1/65 | 652 | 47.9 | 9.6 | -32.9 | 10.7 | 66.976 | -61.3 | 7* 5*33 | 34.6 | | | | | | | | | | | | | | | | | 949 |
| 9644 | 3 | 151.61 | 2*20*45 | 4/ 3/65 | 654 | 48.3 | 8.5 | -29.4 | 11.2 | 66.809 | -61.4 | 2*39*33 | 18.8 | | | | | | | | | | | | | | | | | 950 |
| 9645 | 3 | 126.94 | 3*56* 9 | 4/ 3/65 | 654 | 48.2 | 8.5 | -29.2 | 11.2 | 66.803 | -62.2 | 4*21* 3 | 22.9 | | | | | | | | | | | | | | | | | 950 |
| 9646 | 2 | 104.26 | 5*35*23 | 4/ 3/65 | 654 | 48.1 | 8.5 | -29.0 | 11.2 | 66.797 | -59.5 | 6* 9*23 | 34.0 | | | | | | | | | | | | | | | | | 950 |
| 9667 | 2 | 77.60 | 7*12*56 | 4/ 3/65 | 654 | 48.0 | 8.5 | -28.8 | 11.1 | 66.791 | -50.2 | 7*50*33 | 37.6 | | | | | | | | | | | | | | | | | 950 |
| 9674 | 1 | -55.10 | 18*34*44 | 4/ 3/65 | 654 | 47.3 | 8.4 | -27.5 | 11.1 | 66.747 | -85.6 | 18*45* 3 | 10.3 | | | | | | | | | | | | | | | | | 951 |
| 9675 | 1 | -119.77 | 20*12* 8 | 4/ 3/65 | 654 | 47.2 | 8.4 | -27.3 | 11.1 | 66.741 | -74.0 | 20*25*58 | 13.8 | | | | | | | | | | | | | | | | | 951 |
| 9676 | 2 | -144.44 | 21*49*32 | 4/ 3/65 | 654 | 47.1 | 8.4 | -27.2 | 11.1 | 66.735 | -66.5 | 22* 9*33 | 11.0 | | | | | | | | | | | | | | | | | 951 |
| 9678 | 3 | 166.21 | 1* 4*19 | 4/ 4/65 | 655 | 46.9 | 8.4 | -26.8 | 11.1 | 66.723 | 6.1 | 1*23* 3 | 18.7 | | | | | | | | | | | | | | | | | 951 |
| 9679 | 3 | 141.54 | 2*41*43 | 4/ 4/65 | 655 | 46.8 | 8.4 | -26.6 | 11.0 | 66.716 | -64.0 | 3* 3* 3 | 21.3 | | | | | | | | | | | | | | | | | 951 |

| ORBIT NO. | CCA STA | READOUT | | | | ORBIT | | | | | | | | | | TIME INTERVAL OF FILE ON FMR TAPE | | | | FMR TAPE REEL NO. |
|-----------|---------|-------------------------------|---------------|-----------------------|-------------------------|-----------------------|----------------------|----------------------|--------|---------------------|-----------------------------|---------------------|-----------------------------|-----------|--|-----------------------------------|--|--|--|-------------------|
| | | SATELLITE EQUATOR CROSSING AT | | SPIN VECTOR | | ATTITUDE | | SPIN RATE (DEG /SEC) | BEGIN | E N U | | | DROPOUTS, MINUTES W/R/T AND | | | | | | | |
| | | ASCENDING NODE (LANO) | | DECLI -NA -TION (DEG) | RIGHT ASCEN -SION (DEG) | MINI -MUM NADIR (DEG) | TOT (MIN. AFTER AND) | | | MINU -TES W/R/T AND | HOURS MINUTES SECONDS (GMT) | MINU -TES W/R/T AND | | | | | | | | |
| | | EARTH LONGI -TIDE (DEG) | CALENDAR DATE | | | | | | | | | | | TIROS DAY | | | | | | |
| 9680 | 3 | 116.87 | 4/ 4/65 | 655 | 46.7 | 8.4 | -26.4 | 11.0 | 66.710 | -60.9 | 4*41*33 | 22.4 | | | | 951 | | | | |
| 9681 | 2 | 92.20 | 5*56*31 | 4/ 4/65 | 655 | 46.6 | 8.4 | -26.2 | 11.0 | 66.704 | -59.8 | 6*31*33 | 35.0 | | | 951 | | | | |
| 9685 | 1 | -105.17 | 18*55*42 | 4/ 4/65 | 655 | 45.8 | 8.2 | -24.7 | 10.9 | 66.654 | -77.1 | 19* 7* 3 | 11.4 | | | 952 | | | | |
| 9690 | 2 | -125.84 | 20*33* 6 | 4/ 4/65 | 655 | 45.7 | 8.2 | -24.5 | 10.9 | 66.648 | -72.8 | 20*41*23 | 8.5 | | | 952 | | | | |
| 9691 | 2 | -154.51 | 22*10*30 | 4/ 4/65 | 655 | 45.6 | 8.2 | -24.3 | 10.9 | 66.642 | -77.0 | 22*20*33 | 10.1 | | | 952 | | | | |
| 9693 | 3 | 156.14 | 1*25*18 | 4/ 5/65 | 656 | 45.5 | 8.2 | -23.9 | 10.9 | 66.630 | -64.1 | 1*45* 3 | 19.8 | | | 952 | | | | |
| 9694 | 3 | 131.47 | 3* 2*42 | 4/ 5/65 | 656 | 45.4 | 8.2 | -23.7 | 10.9 | 66.623 | -64.8 | 3*24* 3 | 21.4 | | | 952 | | | | |
| 9695 | 2 | 106.79 | 4*40* 5 | 4/ 5/65 | 656 | 45.3 | 8.2 | -23.5 | 10.9 | 66.617 | -52.8 | 5*13*33 | 33.5 | | | 952 | | | | |
| 9696 | 2 | 82.12 | 6*17*29 | 4/ 5/65 | 656 | 45.2 | 8.2 | -23.3 | 10.9 | 66.611 | -44.2 | 6*54*33 | 37.1 | | | 952 | | | | |
| 9704 | 1 | -115.24 | 19*16*40 | 4/ 5/65 | 656 | 44.4 | 8.0 | -21.9 | 10.8 | 66.561 | -75.4 | 19*28*33 | 11.9 | | | 953 | | | | |
| 9708 | 1 | 146.32 | 1*46*16 | 4/ 6/65 | 657 | 44.1 | 7.9 | -21.1 | 10.8 | 66.536 | -6.0 | 2*18*33 | 32.3 | | | 953 | | | | |
| 9709 | 3 | 121.65 | 3*23*40 | 4/ 6/65 | 657 | 44.0 | 7.9 | -20.9 | 10.8 | 66.530 | -7.5 | 3*46*33 | 22.9 | | | 953 | | | | |
| 9710 | 3 | 56.98 | 5* 1* 4 | 4/ 6/65 | 657 | 43.9 | 7.9 | -20.7 | 10.8 | 66.524 | -59.6 | 5*15*33 | 14.5 | | | 953 | | | | |
| 9718 | 1 | -100.38 | 18* C*15 | 4/ 6/65 | 657 | 43.2 | 7.6 | -19.2 | 10.7 | 66.474 | -47.0 | 18*10* 3 | 9.8 | | | 954 | | | | |
| 9720 | 2 | -149.72 | 21*15* 3 | 4/ 6/65 | 657 | 43.0 | 7.6 | -18.9 | 10.7 | 66.462 | -81.5 | 21*26*33 | 11.5 | | | 954 | | | | |
| 9722 | 1 | 160.93 | 0*29*50 | 4/ 7/65 | 658 | 42.9 | 7.5 | -18.5 | 10.7 | 66.449 | -61.5 | 1* 7*33 | 30.7 | | | 954 | | | | |
| 9723 | 1 | 136.26 | 2* 7*14 | 4/ 7/65 | 658 | 42.8 | 7.5 | -18.3 | 10.7 | 66.443 | -54.7 | 2*41*33 | 34.3 | | | 954 | | | | |
| 9724 | 2 | 111.59 | 3*44*38 | 4/ 7/65 | 658 | 42.7 | 7.5 | -18.1 | 10.7 | 66.437 | -50.5 | 4*17*33 | 32.9 | | | 954 | | | | |
| 9725 | 2 | 66.92 | 5*22* 2 | 4/ 7/65 | 658 | 42.6 | 7.5 | -17.9 | 10.7 | 66.430 | -49.2 | 5*58*33 | 36.5 | | | 954 | | | | |
| 9735 | 2 | -159.78 | 21*36* 1 | 4/ 7/65 | 658 | 41.8 | 7.2 | -16.0 | 10.8 | 66.368 | -76.8 | 21*47*33 | 11.5 | | | 955 | | | | |
| 9737 | 1 | 150.87 | C*50*49 | 4/ 8/65 | 659 | 41.7 | 7.2 | -15.7 | 10.8 | 66.356 | -61.3 | 1*22*33 | 31.7 | | | 955 | | | | |
| 9738 | 1 | 126.20 | 2*28*12 | 4/ 8/65 | 659 | 41.6 | 7.1 | -15.5 | 10.8 | 66.349 | -23.6 | 3* 4*33 | 36.4 | | | 955 | | | | |
| 9739 | 2 | 101.53 | 4* 5*36 | 4/ 8/65 | 659 | 41.5 | 7.1 | -15.3 | 10.8 | 66.343 | -48.2 | 4*39*33 | 34.0 | | | 955 | | | | |
| 9740 | 2 | 76.86 | 5*43* 0 | 4/ 8/65 | 659 | 41.4 | 7.1 | -15.1 | 10.8 | 66.337 | -51.3 | 6*21*33 | 38.6 | | | 955 | | | | |
| 9749 | 2 | -145.16 | 20*19*35 | 4/ 8/65 | 659 | 40.7 | 6.8 | -13.4 | 10.8 | 66.281 | -71.5 | 20*29*33 | 10.0 | | | 956 | | | | |
| 9754 | 2 | 51.47 | 4*20*34 | 4/ 9/65 | 660 | 40.4 | 6.7 | -12.5 | 10.9 | 66.249 | -30.5 | 5* 1*33 | 35.0 | | | 956 | | | | |

| READOUT | | | | | | | | | | ORBIT | | | | | | | | | | TIME INTERVAL OF FILE ON FMR TAPE | | | | | | | | | |
|-----------|---------|-----------------------|------------|---------------------|---------|---------|---------------|-----------|-------------------|-----------------------|------------------|----------------------|-----------|---------------------|-----------------------------|---------------------|-----------------------------|------|-------------------|-----------------------------------|--|--|--|--|--|--|--|--|--|
| ORBIT NO. | CCA STA | SATELLITE ORBITAL | | EQUATOR CROSSING AT | | SPIN | | VECTOR | | ATTITUDE | | SPIN RATE (DEG /SEC) | BEGIN | | E N D | | DROPOUTS, MINUTES W/R/T AND | | FMR TAPE REEL NO. | | | | | | | | | | |
| | | Earth Longitude (DEG) | Time (GMT) | Hours | Minutes | Seconds | Calendar Date | TIRUS DAY | Declination (DEG) | Right Ascension (DEG) | Mini Nadir (DEG) | | TOF (MIN) | Minu -tes W/R/T AND | Hours Minutes Seconds (GMT) | Minu -tes W/R/T AND | From - | To - | | | | | | | | | | | |
| 9763 | 2 | -130.55 | 19* 3* 9 | 4/ 9/65 | 660 | 39.7 | 6.4 | -10.8 | 10.9 | 66.193 | -75.8 | 19* 9*33 | 6.4 | | | | | | 957 | | | | | | | | | | |
| 9764 | 2 | -155.22 | 20*4*33 | 4/ 9/65 | 660 | 39.7 | 6.4 | -10.7 | 10.0 | 66.187 | -78.0 | 20*51*33 | 11.0 | | | | | | 957 | | | | | | | | | | |
| 9768 | 2 | 106.09 | 3*10* 9 | 4/10/65 | 661 | 39.4 | 6.4 | -9.9 | 11.0 | 66.162 | -40.6 | 3*43*33 | 33.4 | | | | | | 957 | | | | | | | | | | |
| 9769 | 2 | 81.41 | 4*47*33 | 4/10/65 | 661 | 39.4 | 6.4 | -9.7 | 11.0 | 66.156 | -51.9 | 5*24*33 | 37.0 | | | | | | 957 | | | | | | | | | | |
| 9776 | 1 | -91.27 | 16* 9*20 | 4/10/65 | 661 | 38.9 | 6.1 | -8.4 | 11.2 | 66.112 | -86.9 | 16*18* 3 | 8.7 | | | | | | 958 | | | | | | | | | | |
| 9777 | 1 | -115.94 | 17*46*44 | 4/10/65 | 661 | 38.8 | 6.1 | -8.3 | 11.2 | 66.105 | -75.6 | 17*59*33 | 12.8 | | | | | | 958 | | | | | | | | | | |
| 9778 | 2 | -140.61 | 19*24* 7 | 4/10/65 | 661 | 38.8 | 6.1 | -8.1 | 11.2 | 66.099 | -71.7 | 19*36*33 | 12.4 | | | | | | 958 | | | | | | | | | | |
| 9783 | 2 | 56.03 | 3*31* 7 | 4/11/65 | 662 | 38.5 | 6.0 | -7.2 | 11.3 | 66.038 | -62.6 | 4* 5*33 | 34.4 | | | | | | 958 | | | | | | | | | | |
| 9792 | 2 | -126.00 | 18* 7*42 | 4/11/65 | 662 | 38.0 | 5.7 | -5.6 | 11.4 | 66.011 | -68.4 | 18*14*33 | 6.9 | | | | | | 959 | | | | | | | | | | |
| 9793 | 2 | -150.67 | 19*45* 5 | 4/11/65 | 662 | 37.9 | 5.7 | -5.4 | 11.4 | 66.005 | -78.8 | 19*57*33 | 12.5 | | | | | | 959 | | | | | | | | | | |
| 9798 | 2 | 85.97 | 3*52* 5 | 4/12/65 | 663 | 37.7 | 5.6 | -4.5 | 11.5 | 65.974 | -59.3 | 4*28*33 | 36.5 | | | | | | 959 | | | | | | | | | | |
| 9805 | 1 | -86.72 | 15*13*52 | 4/12/65 | 663 | 37.2 | 5.4 | -3.2 | 11.6 | 65.930 | -83.9 | 15*23* 3 | 9.2 | | | | | | 960 | | | | | | | | | | |
| 9806 | 1 | -111.39 | 16*51*16 | 4/12/65 | 663 | 37.2 | 5.4 | -3.1 | 11.6 | 65.923 | -77.8 | 17* 3* 3 | 11.8 | | | | | | 960 | | | | | | | | | | |
| 9807 | 1 | -136.06 | 18*28*39 | 4/12/65 | 663 | 37.2 | 5.4 | -2.9 | 11.6 | 65.917 | -72.3 | 18*35*33 | 6.9 | | | | | | 960 | | | | | | | | | | |
| 9808 | 2 | -160.73 | 20* 6* 3 | 4/12/65 | 663 | 37.1 | 5.4 | -2.7 | 11.6 | 65.911 | -1.8 | 20*18*33 | 12.5 | | | | | | 960 | | | | | | | | | | |
| 9810 | 3 | 149.92 | 23*20*51 | 4/12/65 | 663 | 37.1 | 5.4 | -2.4 | 11.7 | 65.898 | -56.8 | 23*40*33 | 19.7 | | | | | | 960 | | | | | | | | | | |
| 9812 | 2 | 100.50 | 2*35*39 | 4/13/65 | 664 | 37.0 | 5.4 | -2.0 | 11.7 | 65.886 | -47.7 | 3* 9*33 | 33.9 | | | | | | 960 | | | | | | | | | | |
| 9822 | 2 | -146.10 | 18*49*37 | 4/13/65 | 664 | 36.5 | 5.1 | -0.3 | 12.0 | 65.823 | -66.8 | 19* 3*14 | 13.6 | | | | | | 961 | | | | | | | | | | |
| 9826 | 3 | 115.21 | 1*19*13 | 4/14/65 | 665 | 36.3 | 5.1 | 0.4 | 12.1 | 65.798 | -36.7 | 1*42*33 | 23.3 | | | | | | 961 | | | | | | | | | | |
| 9839 | 1 | 154.50 | 22*25*23 | 4/14/65 | 665 | 35.8 | 4.9 | 2.6 | 12.4 | 65.716 | -30.8 | 22*56*33 | 31.2 | | | | | | 962 | | | | | | | | | | |
| 9840 | 1 | 129.83 | 6* 2*53 | 4/15/65 | 666 | 35.8 | 4.8 | 2.8 | 12.3 | 65.710 | -53.6 | 0*37*33 | 34.7 | | | | | | 962 | | | | | | | | | | |
| 9849 | 1 | -92.20 | 14*39*11 | 4/15/65 | 666 | 35.8 | 5.2 | 4.3 | 12.8 | 65.653 | -88.4 | 14*47*33 | 8.2 | | | | | | 963 | | | | | | | | | | |
| 9850 | 1 | -116.87 | 16*16*45 | 4/15/65 | 666 | 35.8 | 5.2 | 4.5 | 12.9 | 65.647 | -77.2 | 16*29*33 | 12.8 | | | | | | 963 | | | | | | | | | | |
| 9855 | 3 | 119.77 | 0*23*44 | 4/16/65 | 667 | 35.8 | 5.4 | 5.3 | 13.1 | 65.615 | -47.1 | 0*46*33 | 22.8 | | | | | | 963 | | | | | | | | | | |
| 9864 | 1 | -102.25 | 15* 6*19 | 4/16/65 | 667 | 36.3 | 6.0 | 6.5 | 13.7 | 65.558 | -42.7 | 15* 9*33 | 9.2 | | | | | | 964 | | | | | | | | | | |
| 9865 | 1 | -126.92 | 16*37*43 | 4/16/65 | 667 | 36.4 | 6.1 | 6.7 | 13.8 | 65.552 | -74.8 | 16*52*33 | 14.8 | | | | | | 964 | | | | | | | | | | |

| READOUT | | | | | | | | | | | | | | | | | ORBIT | | | | | | | | | | TIME INTERVAL OF FILE ON FMR TAPE | | | | | FMR TAPE REEL NO. |
|--------------|---|-----|-------------------------|--------------------------------------|------------------|---------------------|----------------------|----------------------------------|--------------------------------|----------------------|------------------------------|--------------------------------------|------------------------------|-------------------------------|--------------|--|-------|--|-----------------------------------|--|--|--|--|-----|--|--|-----------------------------------|--|--|--|--|----------------------------|
| ORBIT NO. | | CLA | SATELLITE ORBITAL | | | EQUATOR CROSSING AT | | SPIN | | VECTOR | | ATTITUDE | | SPIN RATE (DEG /SEC) | BEGIN | | E N D | | DROPOUTS, MINUTES W/R/T AND | | | | | | | | | | | | | |
| | | | EARTH LONGI (DEG) | HOURS MINUTES SECONDS (GMT) | CALENDAR DATE | TURNS DAY | DECLI -N (DEG) | RIGHT ASCEN -SION (DEG) | MINI -NUM NADIR (DEG) | TOT (MIN. ANO) | MINU -TES W/R/T ANO | HOURS MINUTES SECONDS (GMT) | MINU -TES W/R/T ANO | | FROM- TO- | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9869 | 1 | | 134.39 | 23* 7*18 | 4/16/65 | 667 | 36.5 | 6.2 | 7.2 | 14.0 | 65.527 | -36.1 | 23*41*33 | 34.3 | | | | | | | | | | 964 | | | | | | | | |
| 9879 | 1 | | -112.30 | 15*21*17 | 4/17/65 | 668 | 41.5 | 10.5 | 6.4 | 15.0 | 65.464 | -77.3 | 15*36*33 | 15.3 | | | | | | | | | | 965 | | | | | | | | |
| 9883 | 1 | | 149.01 | 21*50*52 | 4/17/65 | 668 | 41.7 | 10.7 | 7.0 | 16.2 | 65.438 | -35.0 | 22*23* 3 | 32.2 | | | | | | | | | | 965 | | | | | | | | |
| 9884 | 1 | | 124.33 | 23*28*16 | 4/17/65 | 668 | 41.7 | 10.7 | 7.1 | 16.2 | 65.432 | -48.4 | 0* 7*33 | 39.3 | | | | | | | | | | 965 | | | | | | | | |
| 9885 | 3 | | 59.67 | 1* 5*40 | 4/18/65 | 669 | 41.8 | 10.8 | 7.2 | 16.3 | 65.426 | -45.0 | 1*31*33 | 25.9 | | | | | | | | | | 965 | | | | | | | | |
| 9893 | 1 | | -57.69 | 14* 4*50 | 4/18/65 | 669 | 42.2 | 11.6 | 8.0 | 16.8 | 65.375 | -78.3 | 14*15* 3 | 10.2 | | | | | | | | | | 966 | | | | | | | | |
| 9894 | 1 | | -122.36 | 15*42*14 | 4/18/65 | 669 | 42.2 | 11.6 | 8.1 | 16.8 | 65.369 | -4.2 | 15*58*33 | 16.3 | | | | | | | | | | 966 | | | | | | | | |
| 9898 | 1 | | 138.95 | 22*11*50 | 4/18/65 | 669 | 42.3 | 11.8 | 8.4 | 17.2 | 65.344 | -18.3 | 22*45* 3 | 33.2 | | | | | | | | | | 966 | | | | | | | | |
| 9908 | 1 | | -107.74 | 14*25*48 | 4/19/65 | 670 | 42.8 | 12.8 | 9.3 | 17.8 | 65.280 | -79.0 | 14*40*33 | 14.8 | | | | | | | | | | 967 | | | | | | | | |
| 9912 | 1 | | 153.57 | 20*55*23 | 4/19/65 | 670 | 42.8 | 13.0 | 9.7 | 18.0 | 65.255 | -35.4 | 21*27* 3 | 31.7 | | | | | | | | | | 967 | | | | | | | | |
| 9913 | 1 | | 128.90 | 22*32*47 | 4/19/65 | 670 | 42.9 | 13.1 | 9.8 | 18.1 | 65.249 | -52.9 | 23* 8*33 | 35.8 | | | | | | | | | | 967 | | | | | | | | |
| 9914 | 3 | | 104.23 | 0*10*11 | 4/20/65 | 671 | 42.9 | 13.1 | 9.8 | 18.1 | 65.242 | 21.9 | 0*34*33 | 24.4 | | | | | | | | | | 967 | | | | | | | | |
| 9922 | 1 | | -93.17 | 13* 9*22 | 4/20/65 | 671 | 43.2 | 14.0 | 10.5 | 18.7 | 65.192 | -86.0 | 13*19* 3 | 9.7 | | | | | | | | | | 968 | | | | | | | | |
| 9923 | 1 | | -117.84 | 14*46*45 | 4/20/65 | 671 | 43.2 | 14.1 | 10.6 | 18.7 | 65.185 | -74.4 | 14*59*33 | 12.8 | | | | | | | | | | 968 | | | | | | | | |
| 9927 | 1 | | 143.47 | 21*16*21 | 4/20/65 | 671 | 43.3 | 14.3 | 10.9 | 19.0 | 65.160 | 20.9 | 21*50* 3 | 33.7 | | | | | | | | | | 968 | | | | | | | | |
| 9937 | 1 | | -103.23 | 13*30*19 | 4/21/65 | 672 | 43.7 | 15.3 | 11.5 | 19.7 | 65.097 | -87.4 | 13*39*33 | 9.2 | | | | | | | | | | 969 | | | | | | | | |
| 9941 | 1 | | 158.08 | 19*59*54 | 4/21/65 | 672 | 43.8 | 15.5 | 11.7 | 20.0 | 65.072 | -41.8 | 20*31* 3 | 31.2 | | | | | | | | | | 969 | | | | | | | | |
| 9942 | 1 | | 133.41 | 21*37*18 | 4/21/65 | 672 | 43.9 | 15.5 | 11.7 | 20.0 | 65.065 | -54.0 | 22*11*33 | 34.3 | | | | | | | | | | 969 | | | | | | | | |
| 9952 | 1 | | -113.28 | 13*51*16 | 4/22/65 | 673 | 46.1 | 22.6 | 11.3 | 21.9 | 65.002 | -75.5 | 14* 4* 3 | 12.8 | | | | | | | | | | 970 | | | | | | | | |
| 9956 | 1 | | 148.03 | 20*20*52 | 4/22/65 | 673 | 46.7 | 24.3 | 11.2 | 22.4 | 64.977 | -38.8 | 20*54* 3 | 33.2 | | | | | | | | | | 970 | | | | | | | | |
| 9957 | 1 | | 123.36 | 21*58*15 | 4/22/65 | 673 | 46.9 | 24.9 | 11.1 | 22.6 | 64.970 | -51.8 | 22*34*33 | 36.3 | | | | | | | | | | 970 | | | | | | | | |
| 9958 | 3 | | 58.69 | 23*35*39 | 4/22/65 | 673 | 47.2 | 25.6 | 10.9 | 22.7 | 64.964 | -47.0 | 0* 1*58 | 26.3 | | | | | | | | | | 970 | | | | | | | | |
| 9966 | 1 | | -58.67 | 12*34*50 | 4/23/65 | 674 | 47.5 | 33.1 | 10.6 | 24.6 | 64.913 | -46.5 | 12*46* 3 | 11.2 | | | | | | | | | | 971 | | | | | | | | |
| 9970 | 1 | | 162.64 | 19* 4*25 | 4/23/65 | 674 | 47.2 | 35.1 | 10.9 | 25.2 | 64.888 | -47.9 | 19*34*33 | 30.1 | | | | | | | | | | 971 | | | | | | | | |
| 9971 | 1 | | 137.57 | 20*41*49 | 4/23/65 | 674 | 47.3 | 35.5 | 10.9 | 25.3 | 64.882 | -53.7 | 21*15*33 | 33.7 | | | | | | | | | | 971 | | | | | | | | |
| 9981 | 1 | | -108.72 | 12*55*47 | 4/24/65 | 675 | 45.6 | 44.0 | 11.0 | 27.4 | 64.818 | -74.6 | 13* 6*33 | 10.8 | | | | | | | | | | 972 | | | | | | | | |

| READOUT | | | | | | | | | | ORBIT | | | | | | | | | | TIME INTERVAL OF FILE ON FMR TAPE | | | | | | | | | | FMR TAPE REFL NO. |
|--------------|------------|-------------------------------|--------------------------------------|------------------|--------------|--------------------------------|----------------------------------|--------------------------------|-------------------------------|------------------------------|-------|--------------------------------------|------------------------------|--|----------------------|--|--------|------|--|-----------------------------------|--|--|--|--|--|--|--|--|--|----------------------------|
| ORBIT NO. | CCA STA | SATELLITE EQUATOR CROSSING AT | | | SPIN | | VECTOR | | ATTITUDE | | BEGIN | E N D | | | DROPOUTS, MINUTES | | FROM-- | TO-- | | | | | | | | | | | | |
| | | EARTH LONGI (DEG) | HOURS MINUTES SECONDS (GMT) | CALENDAR DATE | TURNS DAY | DECLI -NA -TION (DEG) | RIGHT ASCEN -SION (DEG) | MINI -MUM NADIR (DEG) | TOT (MIN. AFTER AND) | MINU -TES W/R/T AND | | HOURS MINUTES SECONDS (GMT) | MINU -TES W/R/T AND | | | | | | | | | | | | | | | | | |
| 9985 | 1 | 152.59 | 19*25*22 | 4/24/65 | 675 | 44.8 | 45.6 | 11.5 | 27.9 | 64.793 | -40.5 | 19*57*3 | 31.7 | | | | | | | 972 | | | | | | | | | | |
| 9986 | 1 | 127.52 | 21* 2*46 | 4/24/65 | 675 | 44.7 | 46.1 | 11.5 | 28.1 | 64.787 | -48.9 | 21*38*33 | 35.8 | | | | | | | 972 | | | | | | | | | | |
| 9995 | 1 | -94.11 | 11*39*20 | 4/25/65 | 676 | 41.6 | 52.6 | 11.8 | 30.0 | 64.730 | -88.9 | 11*47*33 | 8.2 | | | | | | | 973 | | | | | | | | | | |
| 9996 | 1 | -118.77 | 13*10*44 | 4/25/65 | 676 | 41.1 | 53.0 | 12.0 | 30.2 | 64.723 | -68.3 | 13*29*33 | 12.8 | | | | | | | 973 | | | | | | | | | | |
| 9999 | 1 | 167.20 | 18* 8*56 | 4/25/65 | 676 | 40.1 | 53.7 | 12.6 | 30.7 | 64.704 | -47.9 | 18*39*33 | 30.6 | | | | | | | 973 | | | | | | | | | | |
| 10001 | 3 | 117.86 | 21*23*43 | 4/25/65 | 676 | 39.7 | 54.5 | 12.7 | 31.0 | 64.691 | -53.2 | 21*46*58 | 23.3 | | | | | | | 973 | | | | | | | | | | |
| 10014 | 1 | 157.15 | 18*29*53 | 4/26/65 | 677 | 32.7 | 59.5 | 14.9 | 33.6 | 64.609 | -40.1 | 19* 0*33 | 30.7 | | | | | | | 974 | | | | | | | | | | |
| 10015 | 1 | 132.48 | 20* 7*17 | 4/26/65 | 677 | 32.4 | 59.7 | 15.1 | 33.7 | 64.603 | -53.9 | 20*42*33 | 35.3 | | | | | | | 974 | | | | | | | | | | |
| 10024 | 1 | -89.58 | 10*43*51 | 4/27/65 | 678 | 26.7 | 63.2 | 16.3 | 35.7 | 64.546 | -66.3 | 10*52*33 | 8.7 | | | | | | | 975 | | | | | | | | | | |
| 10025 | 1 | -114.25 | 12*21*15 | 4/27/65 | 678 | 26.0 | 63.2 | 16.6 | 35.9 | 64.539 | -65.8 | 12*33*33 | 12.3 | | | | | | | 975 | | | | | | | | | | |
| 10029 | 1 | 147.66 | 18*50*50 | 4/27/65 | 678 | 23.9 | 63.0 | 17.9 | 36.6 | 64.514 | -58.3 | 19*23*33 | 32.7 | | | | | | | 975 | | | | | | | | | | |
| 10044 | 1 | 137.00 | 19*11*47 | 4/28/65 | 679 | 4.0 | 64.3 | 21.6 | 39.5 | 64.419 | -51.9 | 19*45*33 | 33.8 | | | | | | | 976 | | | | | | | | | | |
| 10058 | 1 | 151.62 | 17*55*20 | 4/29/65 | 680 | 5.7 | 65.0 | 24.1 | 42.1 | 64.330 | -44.5 | 18*27*33 | 32.2 | | | | | | | 977 | | | | | | | | | | |
| 10068 | 1 | -55.68 | 10* 9*18 | 4/30/65 | 681 | 4.5 | 65.3 | 22.7 | 43.0 | 64.267 | -66.3 | 10*18*33 | 9.3 | | | | | | | 978 | | | | | | | | | | |
| 10073 | 1 | 141.56 | 18*16*17 | 4/30/65 | 681 | 3.9 | 65.2 | 22.1 | 43.3 | 64.235 | -8.9 | 18*49*33 | 33.3 | | | | | | | 978 | | | | | | | | | | |
| 10074 | 3 | 116.89 | 19*53*41 | 4/30/65 | 681 | 3.8 | 65.2 | 22.0 | 43.4 | 64.229 | -51.6 | 20*16*33 | 22.9 | | | | | | | 978 | | | | | | | | | | |
| 10088 | 1 | 121.51 | 18*37*14 | 5/ 1/65 | 682 | 2.7 | 65.4 | 19.6 | 44.4 | 64.140 | -26.0 | 19*12*33 | 35.3 | | | | | | | 979 | | | | | | | | | | |
| 10089 | 3 | 106.84 | 20*14*38 | 5/ 1/65 | 682 | 2.6 | 65.5 | 19.4 | 44.4 | 64.134 | -49.0 | 20*39*33 | 24.9 | | | | | | | 979 | | | | | | | | | | |
| 10098 | 1 | -115.19 | 10*51*12 | 5/ 2/65 | 683 | 2.0 | 65.8 | 17.6 | 44.9 | 64.077 | -75.9 | 11* 3*33 | 12.4 | | | | | | | 980 | | | | | | | | | | |
| 10102 | 1 | 146.12 | 17*20*47 | 5/ 2/65 | 683 | 1.8 | 65.7 | 16.9 | 45.1 | 64.051 | -44.9 | 17*53*33 | 32.8 | | | | | | | 980 | | | | | | | | | | |
| 10132 | 1 | 125.81 | 18* 2*40 | 5/ 4/65 | 685 | -0.2 | 66.2 | 11.3 | 46.8 | 63.862 | -29.8 | 18*39*33 | 36.9 | | | | | | | 981 | | | | | | | | | | |
| 10133 | 3 | 101.14 | 19*40* 4 | 5/ 4/65 | 685 | -0.3 | 66.2 | 11.1 | 46.9 | 63.855 | -44.0 | 20* 5*33 | 25.5 | | | | | | | 981 | | | | | | | | | | |
| 10145 | 1 | 165.08 | 15* 8*49 | 5/ 5/65 | 686 | -1.1 | 66.3 | 8.8 | 47.6 | 63.779 | -42.2 | 15*39*33 | 30.7 | | | | | | | 982 | | | | | | | | | | |
| 10146 | 1 | 140.41 | 16*46*13 | 5/ 5/65 | 686 | -1.1 | 66.4 | 8.6 | 47.6 | 63.773 | 7.5 | 17*20*33 | 34.3 | | | | | | | 982 | | | | | | | | | | |
| 10160 | 1 | 155.02 | 15*29*46 | 5/ 6/65 | 687 | -1.7 | 66.5 | 5.7 | 48.3 | 63.685 | -10.9 | 16* 1*33 | 31.8 | | | | | | | 983 | | | | | | | | | | |
| 10161 | 1 | 130.35 | 7* 7*10 | 5/ 6/65 | 687 | -1.7 | 66.5 | 5.5 | 48.3 | 63.678 | -51.0 | 17*42*33 | 35.4 | | | | | | | 983 | | | | | | | | | | |

| READOUT | | | | | | | | | | | | | ORBIT | | | | TIME INTERVAL OF FILE ON FMR TAPE | | | | | | FMR TAPE REEL NO. |
|--------------|------------|-------------------------|-----------------------------|----------------------|-----------------------------|---------------------------|------|----------|--------------------------------|----------------------------------|--------------------------------|-------------------------------|-------------------------------|------------------------------|--------------------------------------|---------------------------------------|-----------------------------------|-------|-----------------------------------|-----|--|--|----------------------------|
| ORBIT NO. | CUA STA | SATELLITE ORBITAL | | EQUATOR ASCENDING | | CROSSING AT NODE (AND) | | CALENDAR | | SPIN | | VECTOR | | ATTITUDE | | BEGIN MINU -TES W/R/T AND | E N D | | DROPOUTS, MINUTES W/R/T AND | | | | |
| | | EARTH LONGI (DEG) | MINUTES SECONDS (GMT) | HOURS | MINUTES SECONDS (GMT) | DATE | DAY | TIRDS | DECLI -NA -TION (DEG) | RIGHT ASCEN -SION (DEG) | MINI -MUM NADIR (DEG) | TOT (MIN. AFTER AND) | SPIN RATE (DEG /SEC) | MINU -TES W/R/T AND | HOURS MINUTES SECONDS (GMT) | | MINU -TES W/R/T AND | FROM- | TO- | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| 10175 | 1 | 144.55 | 15*55*42 | 5/ 7/65 | 688 | -2.2 | 66.7 | 2.6 | 49.0 | 63.590 | -56.3 | 16*23*33 | 32.9 | | | | | | | 984 | | | |
| 10176 | 1 | 120.28 | 17*28* 6 | 5/ 7/65 | 688 | -2.2 | 66.7 | 2.4 | 49.1 | 63.584 | -50.4 | 17*51*33 | 23.5 | | | | | | | 984 | | | |
| 10177 | 3 | 55.61 | 19* 5*30 | 5/ 7/65 | 688 | -2.3 | 66.7 | 2.2 | 49.1 | 63.577 | -61.1 | 19*31*33 | 26.1 | | | | | | | 984 | | | |
| 10189 | 4 | 159.56 | 14*34*15 | 5/ 3/65 | 689 | -2.5 | 66.9 | -0.4 | 49.5 | 63.502 | -41.1 | 15* 5*33 | 31.3 | | | | | | | 985 | | | |
| 10190 | 1 | 134.89 | 16*11*39 | 5/ 8/65 | 689 | -2.6 | 66.9 | -0.6 | 49.6 | 63.495 | -53.0 | 16*46* 3 | 34.4 | | | | | | | 985 | | | |
| 10204 | 1 | 145.49 | 14*55*11 | 5/ 9/65 | 690 | -2.8 | 67.0 | -3.6 | 50.2 | 63.407 | -44.0 | 15*27*33 | 32.4 | | | | | | | 986 | | | |
| 10219 | 1 | 139.42 | 15*16* 8 | 5/13/65 | 691 | -2.9 | 67.2 | -6.9 | 50.9 | 63.313 | -49.3 | 15*49*33 | 33.4 | | | | | | | 987 | | | |
| 10220 | 3 | 114.75 | 16*53*31 | 5/11/65 | 691 | -3.0 | 67.2 | -7.1 | 50.9 | 63.306 | -50.5 | 17*16*33 | 23.0 | | | | | | | 987 | | | |
| 10229 | 1 | -107.04 | 7*30* 5 | 5/11/65 | 692 | -3.0 | 67.2 | -9.0 | 51.2 | 63.250 | -67.1 | 7*40*33 | 10.5 | | | | | | | 988 | | | |
| 10248 | 1 | 144.22 | 14*20*36 | 5/12/65 | 693 | -3.1 | 67.2 | -13.0 | 52.0 | 63.130 | -2.2 | 14*53*33 | 33.0 | | | | | | | 989 | | | |
| 10264 | 3 | 105.49 | 16*18*50 | 5/13/65 | 694 | -3.2 | 67.1 | -16.3 | 52.6 | 63.030 | -46.1 | 16*43*33 | 24.6 | | | | | | | 990 | | | |
| 10277 | 1 | 148.78 | 13*25* 5 | 5/14/65 | 695 | -3.1 | 67.0 | -18.9 | 53.1 | 62.940 | -57.8 | 13*57*33 | 32.5 | | | | | | | 991 | | | |
| 10279 | 3 | 55.44 | 16*39*52 | 5/14/65 | 695 | -3.1 | 67.0 | -19.3 | 53.2 | 62.936 | -46.7 | 17* 6*33 | 26.7 | | | | | | | 991 | | | |
| 10307 | 1 | 128.67 | 14* 6*57 | 5/16/65 | 697 | -3.6 | 66.1 | -24.2 | 54.3 | 62.761 | -56.0 | 14*42*33 | 35.6 | | | | | | | 992 | | | |
| 10308 | 3 | 104.30 | 15*44*20 | 5/16/65 | 697 | -3.8 | 66.1 | -24.2 | 54.4 | 62.755 | -48.3 | 16* 9*33 | 25.2 | | | | | | | 992 | | | |
| 10335 | 1 | 157.88 | 11*34* 1 | 5/18/65 | 699 | -9.6 | 64.5 | -24.7 | 56.8 | 63.586 | 12.4 | 12* 6*33 | 32.5 | | | | | | | 993 | | | |
| 10365 | 1 | 137.77 | 12*16*45 | 5/23/65 | 701 | -15.7 | 63.0 | -24.8 | 59.3 | 62.400 | -32.1 | 12*50*33 | 33.8 | | | | | | | 994 | | | |
| 10409 | 1 | 132.27 | 11*42*11 | 5/23/65 | 704 | -28.3 | 63.8 | -21.7 | 64.2 | 62.128 | -37.1 | 12*17*33 | 35.4 | | | | | | | 995 | | | |
| 10424 | 1 | 122.22 | 12* 3*12 | 5/24/65 | 705 | -33.8 | 68.0 | -19.7 | 66.6 | 62.036 | -57.3 | 12*41*33 | 38.4 | | | | | | | 996 | | | |
| 10437 | 1 | 161.50 | 9* 5*22 | 5/25/65 | 706 | -33.7 | 68.0 | -20.8 | 67.4 | 61.956 | -21.6 | 9*40*33 | 31.2 | | | | | | | 997 | | | |
| 10430 | 1 | 136.83 | 10*46*45 | 5/25/65 | 706 | -33.7 | 68.0 | -20.9 | 67.4 | 61.950 | -52.7 | 11*20*33 | 33.8 | | | | | | | 997 | | | |
| 10447 | 1 | -85.20 | 1*23*20 | 5/26/65 | 707 | -33.7 | 68.0 | -21.6 | 68.0 | 61.895 | -92.6 | 1*31*33 | 8.2 | | | | | | | 998 | | | |
| 10448 | 1 | -109.86 | 3* 0*44 | 5/26/65 | 707 | -33.7 | 68.0 | -21.6 | 68.1 | 61.889 | -77.0 | 3*11*33 | 10.8 | | | | | | | 998 | | | |
| 10452 | 1 | 151.44 | 9*30*19 | 5/26/65 | 707 | -33.7 | 67.8 | -21.9 | 68.3 | 61.864 | -25.3 | 10* 2*33 | 32.2 | | | | | | | 998 | | | |
| 10453 | 1 | 126.77 | 11* 7*43 | 5/26/65 | 707 | -33.7 | 67.8 | -22.0 | 68.3 | 61.858 | -52.1 | 11*43*33 | 35.8 | | | | | | | 998 | | | |
| 10454 | 3 | 102.11 | 12*45* 7 | 5/26/65 | 707 | -33.7 | 67.8 | -22.0 | 68.4 | 61.852 | -48.7 | 13*10*33 | 25.4 | | | | | | | 998 | | | |

| READOUT | | | | | | | | | | ORBIT | | | | | | | | | | TIME INTERVAL OF FILM ON FMR TAPE | | | | | | | | | | FMR TAPE REEL NO. | |
|--------------|------------|---|---------|----------|----------|-------------------------|-------------------------|----------------------------------|--------------------------------|-------------------------------|--------------------------------|------------------------------|------------------------------|------|-------|-----------------------------------|--|--------------------------------------|--|-----------------------------------|--|--|-----|--|--|--|--|--|--|----------------------------|--|
| ORBIT NO. | CUA STA | SATELLITE EQUATOR CROSSING AT ASCENDING NODE (A/N) | | | | SPIN VECTOR ATTITUDE | | | | SPIN RATE (DEG /SEC) | E N D | | | | BEGIN | DROPOUTS, MINUTES W/R/T AND | | | | | | | | | | | | | | | |
| | | ORBITAL ASCENDING NODE (A/N) | | TIROS | | DECLI -TION (DEG) | | RIGHT ASCEN -SION (DEG) | | | MINI -MUM NADIR (DEG) | | TOT (MIN AFTER AND) | | | MINU -TES W/R/T AND | | HOURS MINUTES SECONDS (GMT) | | MINU -TES W/R/T AND | | | TO- | | | | | | | | |
| | | EARTH LONGI -TUD (DEG) | DATE | CALENDAR | DAY | TIROS | DECLI -TION (DEG) | RIGHT ASCEN -SION (DEG) | MINI -MUM NADIR (DEG) | | MINI -MUM NADIR (DEG) | TOT (MIN AFTER AND) | | | | | | | | | | | | | | | | | | | |
| 10463 | 1 | -115.92 | 5/27/65 | 708 | 3*21*41 | 708 | -33.7 | 67.6 | -22.5 | 68.8 | 61.797 | -70.6 | 3*34*33 | 12.9 | 999 | | | | | | | | | | | | | | | | |
| 10483 | 3 | 106.66 | 5/28/65 | 709 | 11*49*58 | 709 | -33.8 | 66.9 | -23.3 | 69.8 | 61.675 | -46.6 | 12*14*33 | 24.9 | 1000 | | | | | | | | | | | | | | | | |
| 10491 | 1 | -50.69 | 5/29/65 | 710 | 0*48*49 | 710 | -33.8 | 66.7 | -23.6 | 70.3 | 61.626 | -66.2 | 0*58*3 | 9.2 | 1001 | | | | | | | | | | | | | | | | |
| 10492 | 1 | -115.36 | 5/29/65 | 710 | 2*26*13 | 710 | -33.8 | 66.7 | -23.6 | 70.4 | 61.620 | -75.5 | 2*39*3 | 12.8 | 1001 | | | | | | | | | | | | | | | | |
| 10496 | 1 | 145.55 | 5/29/65 | 710 | 8*55*48 | 710 | -33.8 | 66.5 | -23.7 | 70.6 | 61.596 | -59.0 | 9*29*3 | 33.3 | 1001 | | | | | | | | | | | | | | | | |
| 10510 | 1 | 160.57 | 5/30/65 | 711 | 7*39*22 | 711 | -33.8 | 66.0 | -24.1 | 71.3 | 61.511 | -30.4 | 8*10*33 | 31.2 | 1002 | | | | | | | | | | | | | | | | |
| 10511 | 1 | 135.93 | 5/30/65 | 711 | 9*16*46 | 711 | -33.8 | 66.0 | -24.1 | 71.4 | 61.505 | -52.8 | 9*52*3 | 35.3 | 1002 | | | | | | | | | | | | | | | | |
| 10520 | 1 | -86.12 | 5/30/65 | 711 | 23*53*21 | 711 | -33.9 | 65.7 | -24.2 | 71.8 | 61.450 | -65.5 | 0*2*33 | 9.2 | 1003 | | | | | | | | | | | | | | | | |
| 10525 | 1 | 150.52 | 5/31/65 | 712 | 8*0*20 | 712 | -33.9 | 65.5 | -24.3 | 72.2 | 61.420 | -30.2 | 0*34*3 | 33.7 | 1003 | | | | | | | | | | | | | | | | |
| 10526 | 1 | 125.85 | 5/31/65 | 712 | 5*37*44 | 712 | -33.9 | 65.5 | -24.3 | 72.2 | 61.414 | -50.5 | 10*13*33 | 35.8 | 1003 | | | | | | | | | | | | | | | | |
| 10535 | 1 | -56.18 | 6/1/65 | 713 | 1*14*17 | 713 | -33.4 | 64.7 | -24.9 | 72.5 | 61.360 | -22.4 | 0*23*33 | 9.3 | 1004 | | | | | | | | | | | | | | | | |
| 10536 | 1 | -120.65 | 6/1/65 | 713 | 1*51*42 | 713 | -33.6 | 64.8 | -24.8 | 72.6 | 61.354 | -75.9 | 2*7*3 | 15.4 | 1004 | | | | | | | | | | | | | | | | |
| 10540 | 1 | 140.43 | 6/1/65 | 713 | 8*21*18 | 713 | -33.7 | 65.1 | -24.6 | 72.9 | 61.330 | -56.9 | 8*56*3 | 34.8 | 1004 | | | | | | | | | | | | | | | | |
| 10541 | 3 | 115.76 | 6/1/65 | 713 | 5*58*41 | 713 | -33.8 | 65.3 | -24.5 | 73.0 | 61.324 | -51.4 | 10*22*33 | 23.9 | 1004 | | | | | | | | | | | | | | | | |
| 10550 | 1 | -116.26 | 6/2/65 | 714 | 1*35*16 | 714 | -33.3 | 69.3 | -24.5 | 74.6 | 61.270 | -77.9 | 0*46*3 | 10.8 | 1005 | | | | | | | | | | | | | | | | |
| 10554 | 1 | 155.04 | 6/2/65 | 714 | 7*4*51 | 714 | -32.9 | 69.6 | -24.8 | 74.9 | 61.246 | -39.6 | 7*37*3 | 32.2 | 1005 | | | | | | | | | | | | | | | | |
| 10555 | 1 | 130.37 | 6/2/65 | 714 | 8*42*15 | 714 | -33.0 | 69.8 | -24.8 | 75.0 | 61.244 | -51.3 | 9*18*3 | 35.8 | 1005 | | | | | | | | | | | | | | | | |
| 10565 | 1 | 144.99 | 6/3/65 | 715 | 7*25*49 | 715 | -30.8 | 73.8 | -25.6 | 77.1 | 61.157 | -7.2 | 8*0*3 | 34.2 | 1006 | | | | | | | | | | | | | | | | |
| 10570 | 3 | 120.32 | 6/3/65 | 715 | 9*3*13 | 715 | -30.8 | 74.0 | -25.6 | 77.2 | 61.151 | -49.8 | 9*27*3 | 23.8 | 1006 | | | | | | | | | | | | | | | | |
| 10579 | 1 | -101.70 | 6/3/65 | 715 | 23*39*48 | 715 | -28.5 | 77.2 | -26.0 | 78.7 | 61.095 | -66.3 | 23*50*3 | 10.3 | 1007 | | | | | | | | | | | | | | | | |
| 10583 | 1 | 159.61 | 6/4/65 | 716 | 6*9*23 | 716 | -27.5 | 77.1 | -26.7 | 79.1 | 61.070 | -38.1 | 6*41*3 | 31.7 | 1007 | | | | | | | | | | | | | | | | |
| 10584 | 1 | 134.94 | 6/4/65 | 716 | 7*46*47 | 716 | -27.4 | 77.1 | -26.8 | 79.2 | 61.064 | -50.4 | 8*22*3 | 35.3 | 1007 | | | | | | | | | | | | | | | | |
| 10593 | 1 | -87.08 | 6/4/65 | 716 | 22*23*21 | 716 | -24.6 | 79.7 | -27.4 | 80.7 | 61.008 | -88.4 | 22*32*33 | 9.2 | 1008 | | | | | | | | | | | | | | | | |
| 10594 | 1 | -111.76 | 6/5/65 | 717 | 0*0*45 | 717 | -24.2 | 79.7 | -27.6 | 80.8 | 61.001 | -75.5 | 0*13*3 | 12.3 | 1008 | | | | | | | | | | | | | | | | |
| 10609 | 1 | -121.81 | 6/6/65 | 718 | 0*21*43 | 718 | -19.0 | 81.0 | -29.7 | 83.0 | 60.909 | -75.2 | 0*35*33 | 13.8 | 1009 | | | | | | | | | | | | | | | | |
| 10612 | 1 | 164.17 | 6/6/65 | 718 | 5*13*54 | 718 | -18.0 | 80.5 | -30.5 | 83.2 | 60.891 | -48.7 | 5*44*33 | 30 | 1009 | | | | | | | | | | | | | | | | |

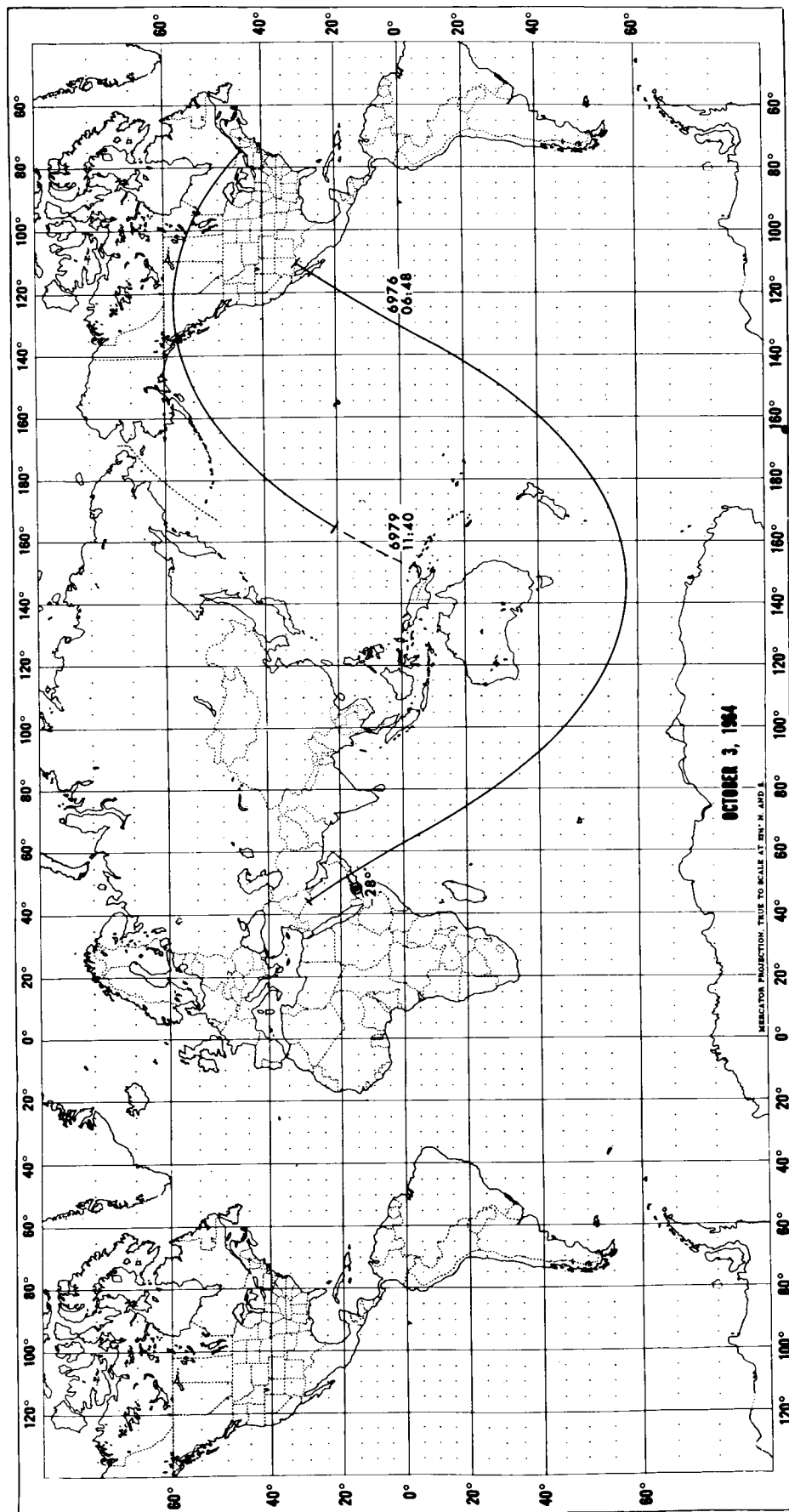
| READOUT | | | | | | | | | | ORBIT | | | | | TIME INTERVAL OF FILE ON FMR TAPE | | | | | | FMR TAPE REEL NO. |
|--------------|------------|-----------------------------------|---|------------------|--------------|--|--|-----------------------|----------------------|-------------------------------|---------------------------------------|------------------------------|--------------------------------------|------------------------------|-----------------------------------|--|--|--|--|------|----------------------------|
| ORBIT NO. | CDA STA | SATELLITE EQUATOR CROSSING AT | | | | SPIN DECLI -NA -TION (DEG) | VECTOK RIGHT ASCEN -SION (DEG) | ATTITUDE | | SPIN RATE (DEG /SEC) | BEGIN MINU -TES W/R/T AND | E N D | | | DROPOUTS, MINUTES W/R/T AND | | | | | | |
| | | ORBITAL LONGI -TUD (DEG) | ASCENDING HOURS MINUTES SECONDS (GMT) | CALENDAR DATE | TIROS DAY | | | MINI -NUM (DEG) | TOT (MIN. AND) | | | MINU -TES W/R/T AND | HOURS MINUTES SECONDS (GMT) | MINU -TES W/R/T AND | TO- | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| 10627 | 1 | 154.12 | 5*34*52 | 6/ 7/65 | 719 | -13.3 | 80.7 | -32.3 | 85.1 | 60.800 | -33.5 | 6* 6*33 | 31.7 | | | | | | | 1010 | |
| 10628 | 1 | 129.44 | 7*12*15 | 6/ 7/65 | 719 | -13.3 | 80.6 | -32.2 | 85.1 | 60.794 | -51.2 | 7*47*33 | 35.3 | | | | | | | 1010 | |
| 10629 | 3 | 104.77 | 8*49*39 | 6/ 7/65 | 719 | -13.3 | 80.6 | -32.1 | 85.2 | 60.788 | -45.6 | 9*14*33 | 24.9 | | | | | | | 1010 | |
| 10637 | 1 | -92.58 | 21*48*50 | 6/ 7/65 | 719 | -13.2 | 80.0 | -31.3 | 85.6 | 60.740 | -34.5 | 21*57*33 | 8.7 | | | | | | | 1011 | |
| 10638 | 1 | -117.25 | 23*26*14 | 6/ 7/65 | 719 | -13.3 | 79.9 | -31.2 | 85.7 | 60.734 | -75.9 | 23*38*33 | 12.3 | | | | | | | 1011 | |
| 10642 | 1 | 144.06 | 5*55*49 | 6/ 8/65 | 720 | -13.3 | 79.6 | -30.7 | 85.8 | 60.710 | -58.7 | 6*29* 3 | 33.2 | | | | | | | 1011 | |
| 10652 | 1 | -102.63 | 22* 9*48 | 6/ 8/65 | 720 | -13.3 | 78.8 | -29.5 | 86.2 | 60.624 | -6.3 | 22*20* 3 | 10.3 | | | | | | | 1012 | |
| 10656 | 1 | 158.68 | 4*39*23 | 6/ 9/65 | 721 | -13.3 | 78.5 | -29.1 | 86.3 | 60.597 | -39.9 | 5*10*33 | 31.2 | | | | | | | 1012 | |
| 10657 | 1 | 134.01 | 6*16*47 | 6/ 9/65 | 721 | -13.3 | 78.5 | -29.0 | 86.4 | 60.591 | -53.3 | 6*51*33 | 34.8 | | | | | | | 1012 | |
| 10658 | 3 | 109.34 | 7*54*11 | 6/ 9/65 | 721 | -13.3 | 78.4 | -28.9 | 86.4 | 60.584 | 0.9 | 8*18*33 | 24.4 | | | | | | | 1012 | |
| 10671 | 1 | 148.62 | 5* 0*21 | 6/10/65 | 722 | -12.8 | 77.9 | -27.4 | 87.1 | 60.498 | -44.5 | 5*33*33 | 33.2 | | | | | | | 1013 | |
| 10681 | 1 | -98.07 | 21*14*19 | 6/10/65 | 722 | -12.4 | 77.6 | -26.2 | 87.7 | 60.431 | -92.9 | 21*25* 3 | 10.7 | | | | | | | 1014 | |
| 10686 | 1 | 138.57 | 5*21*18 | 6/11/65 | 723 | -12.4 | 77.3 | -25.5 | 87.9 | 60.397 | -57.2 | 5*56* 3 | 34.8 | | | | | | | 1014 | |
| 10695 | 1 | -83.45 | 19*57*52 | 6/11/65 | 723 | -12.6 | 77.0 | -24.0 | 88.3 | 60.337 | -68.2 | 20* 6*33 | 8.7 | | | | | | | 1015 | |
| 10696 | 1 | -108.12 | 21*35*16 | 6/11/65 | 723 | -12.7 | 76.9 | -23.8 | 88.3 | 60.330 | -76.2 | 21*46*33 | 11.3 | | | | | | | 1015 | |
| 10700 | 1 | 153.19 | 4* 4*51 | 6/12/65 | 724 | -12.8 | 76.8 | -23.1 | 88.4 | 60.304 | -40.5 | 4*37*33 | 32.7 | | | | | | | 1015 | |
| 10701 | 1 | 128.52 | 5*42*15 | 6/12/65 | 724 | -12.8 | 76.7 | -23.0 | 88.5 | 60.297 | -52.3 | 6*18*33 | 36.3 | | | | | | | 1015 | |
| 10710 | 1 | -53.50 | 20*18*50 | 6/12/65 | 724 | -13.0 | 76.4 | -21.4 | 88.9 | 60.236 | -66.8 | 20*28* 3 | 9.2 | | | | | | | 1016 | |
| 10711 | 1 | -118.17 | 21*56*13 | 6/12/65 | 724 | -13.0 | 76.4 | -21.2 | 88.9 | 60.230 | -74.6 | 22* 9*33 | 13.3 | | | | | | | 1016 | |
| 10716 | 3 | 118.46 | 6* 3*13 | 6/13/65 | 725 | -13.1 | 76.2 | -20.4 | 89.1 | 60.196 | -51.8 | 6*26*33 | 23.3 | | | | | | | 1016 | |
| 10729 | 1 | 157.76 | 3* 9*22 | 6/14/65 | 726 | -13.3 | 75.8 | -18.1 | 89.5 | 60.109 | -48.9 | 3*40*33 | 31.2 | | | | | | | 1017 | |
| 10730 | 1 | 133.08 | 4*46*46 | 6/14/65 | 726 | -13.3 | 75.8 | -17.9 | 89.5 | 60.102 | -52.5 | 5*21*33 | 34.8 | | | | | | | 1017 | |
| 10740 | 1 | -113.61 | 21* 0*45 | 6/14/65 | 726 | -13.5 | 75.5 | -16.1 | 89.9 | 60.035 | -25.2 | 21*15*33 | 14.8 | | | | | | | 1018 | |
| 10744 | 3 | 147.70 | 3*30*20 | 6/15/65 | 727 | -13.5 | 75.4 | -15.4 | 90.1 | 60.008 | -39.0 | 3*50*33 | 20.2 | | | | | | | 1018 | |
| 10745 | 3 | 123.03 | 5* 7*44 | 6/15/65 | 727 | -13.6 | 75.4 | -15.2 | 90.2 | 60.002 | -63.0 | 5*30*33 | 22.8 | | | | | | | 1018 | |
| 10754 | 1 | -58.99 | 19*44*18 | 6/15/65 | 727 | -13.6 | 75.2 | -13.6 | 90.5 | 59.941 | -48.5 | 19*53*33 | 9.3 | | | | | | | 1019 | |

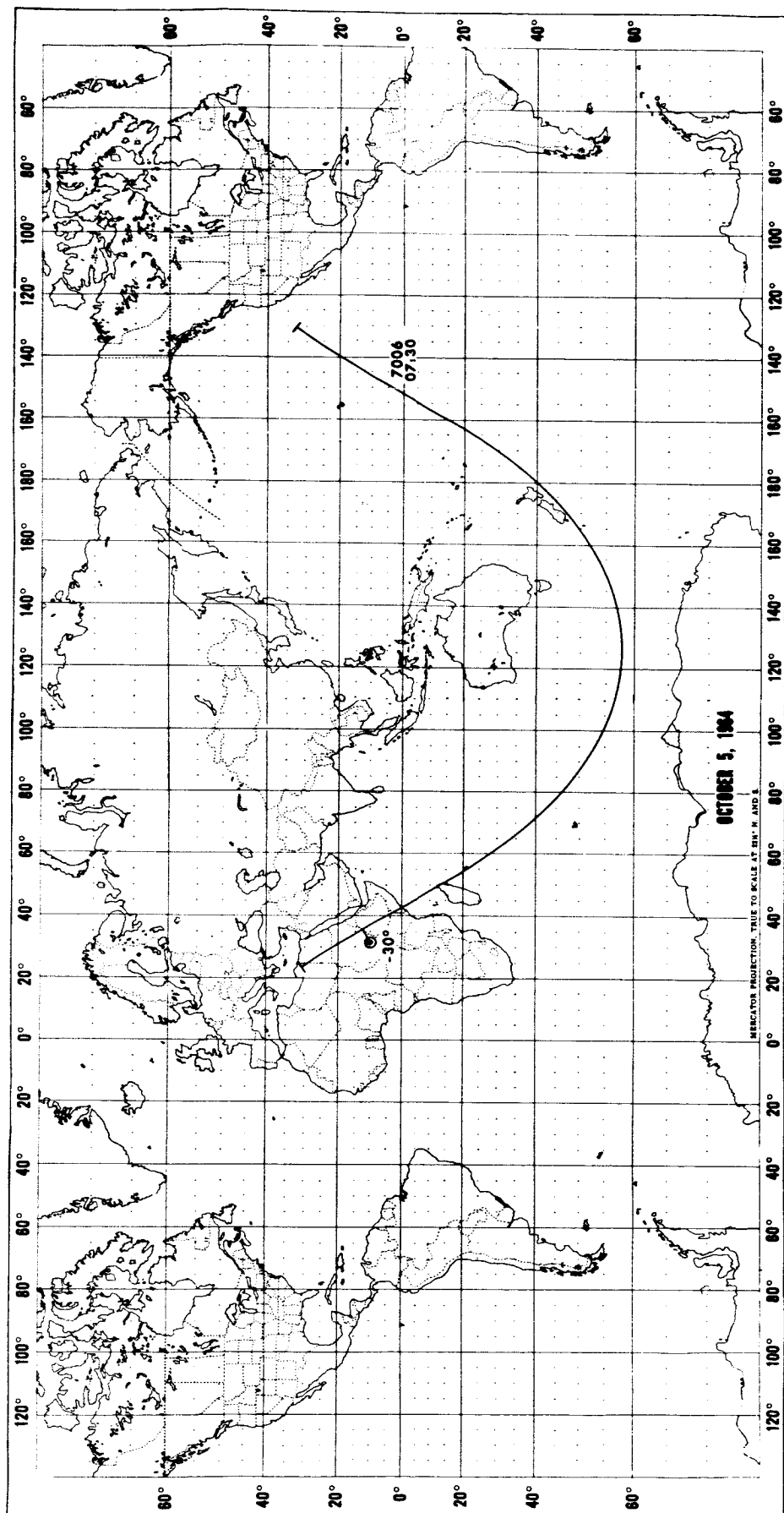
| READOUT | | | | | | | | | | ORBIT | | | | | | | | | | TIME INTERVAL OF FILE ON FMR TAPE | | | | | | | | | | FMR TAPE REEL NO. | | | | |
|--------------|---|------------|--|-----------|------|-----------|---------|------------|------|-------|-----|-------------|-------|-------|-------|-------|--|--------|--|-----------------------------------|-------|-------|-------|----------|--|-------|------|-------|------|----------------------------|-----------------------------------|--|-------|-----|
| ORBIT NO. | | CDA STA | | SATELLITE | | | | EQUATOR | | | | CROSSING AT | | | | SPIN | | VECTOR | | ATTITUDE | | | | BEGIN | | E N D | | | | | DROPOUTS, MINUTES W/R/T AND | | | |
| | | | | ORBITAL | | ASCENDING | | NODE (ANO) | | TIROS | | DAY | | DECLI | | | | | | RIGHT | | MINI | | | | TOT | | HOURS | | | | | MINU | |
| | | | | LONGI | TUDE | HOURS | MINUTES | CALENDAR | DATE | -TION | -NA | ASCEN | -SION | -NUM | (MIN. | | | | | (DEG) | (DEG) | (DEG) | (DEG) | | | (DEG) | AND) | MINU | -TES | | | | W/R/T | AND |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10760 | 3 | | | 112.58 | | 5*28*41 | | 6/16/65 | | 728 | | -13.7 | | 75.0 | | -12.5 | | 90.7 | | 59.901 | | -51.7 | | 5*51*33 | | 22.9 | | | | | | | 1019 | |
| 10774 | 1 | | | 127.59 | | 4*12*15 | | 6/17/65 | | 729 | | -13.3 | | 74.8 | | -10.0 | | 91.2 | | 59.808 | | -45.2 | | 4*47*33 | | 35.3 | | | | | | | 1020 | |
| 10784 | 1 | | | -119.69 | | 20*26*13 | | 6/17/65 | | 729 | | -4.7 | | 75.1 | | -12.7 | | 93.7 | | 59.742 | | -80.4 | | 20*39*33 | | 13.3 | | | | | | | 1021 | |
| 10787 | 1 | | | 166.89 | | 1*18*25 | | 6/18/65 | | 730 | | -4.4 | | 75.0 | | -12.3 | | 93.8 | | 59.722 | | -47.6 | | 1*48*33 | | 30.1 | | | | | | | 1021 | |
| 10788 | 1 | | | 142.21 | | 2*55*49 | | 6/18/65 | | 730 | | -4.3 | | 75.0 | | -12.2 | | 93.9 | | 59.715 | | -14.8 | | 3*28*33 | | 32.7 | | | | | | | 1021 | |
| 10789 | 3 | | | 117.54 | | 4*33*12 | | 6/18/65 | | 730 | | -4.3 | | 74.9 | | -12.0 | | 93.9 | | 59.709 | | -51.2 | | 4*56*33 | | 23.4 | | | | | | | 1021 | |
| 10798 | 1 | | | -104.48 | | 19* 9*47 | | 6/18/65 | | 730 | | -3.7 | | 75.0 | | -10.5 | | 94.4 | | 59.650 | | -73.1 | | 19*19*33 | | 9.8 | | | | | | | 1022 | |
| 10803 | 1 | | | 132.16 | | 3*16*46 | | 6/19/65 | | 731 | | -3.8 | | 74.8 | | -9.5 | | 94.5 | | 59.617 | | -31.9 | | 3*51*33 | | 34.8 | | | | | | | 1022 | |
| 10864 | 3 | | | 167.49 | | 4*54*10 | | 6/19/65 | | 731 | | -3.8 | | 74.8 | | -9.3 | | 94.6 | | 59.610 | | -46.0 | | 5*18*33 | | 24.4 | | | | | | | 1022 | |
| 10812 | 1 | | | -89.86 | | 17*53*20 | | 6/19/65 | | 731 | | -3.9 | | 74.6 | | -7.7 | | 94.8 | | 59.558 | | -89.3 | | 18* 3* 3 | | 9.7 | | | | | | | 1023 | |

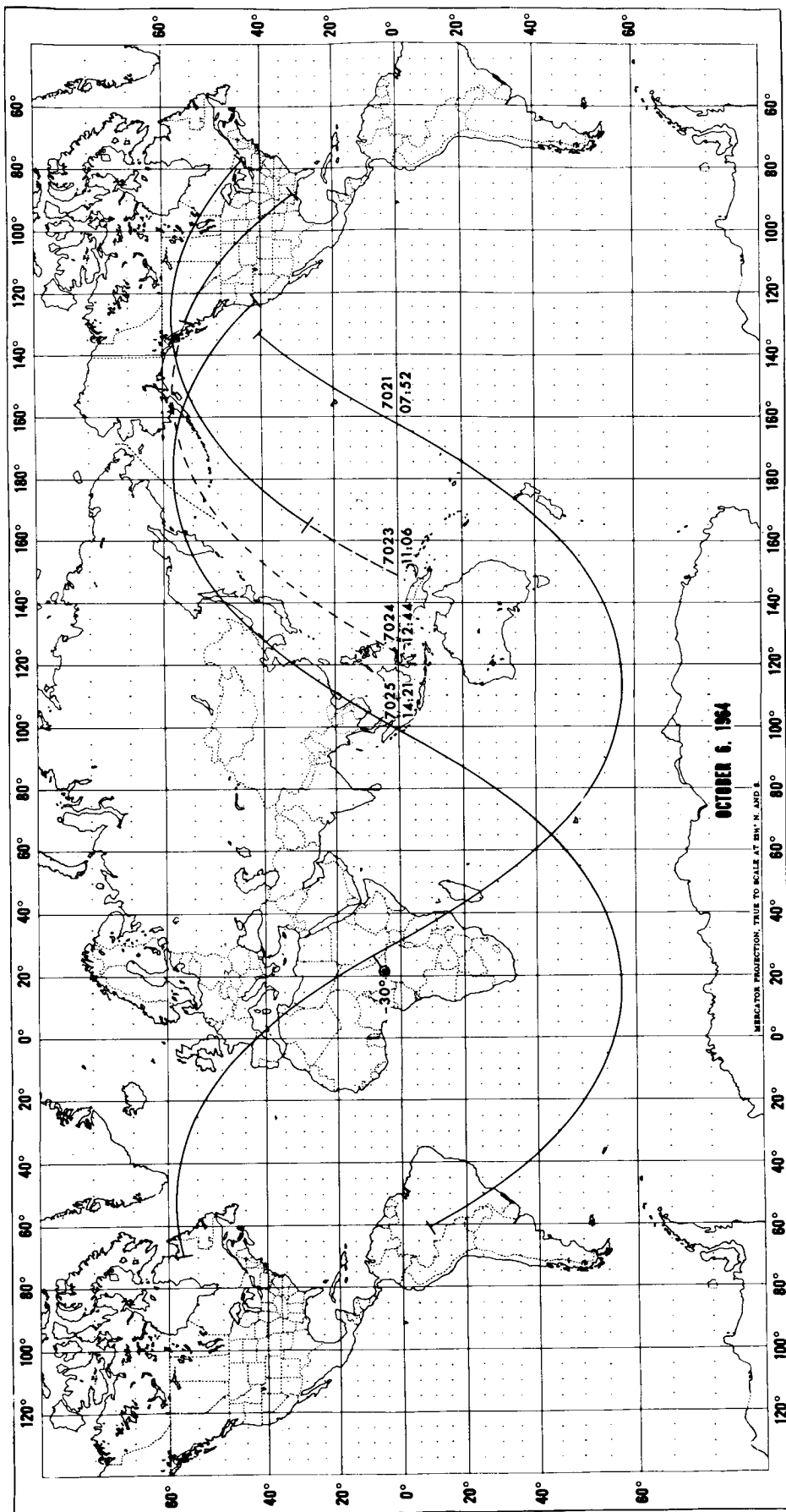
APPENDIX B

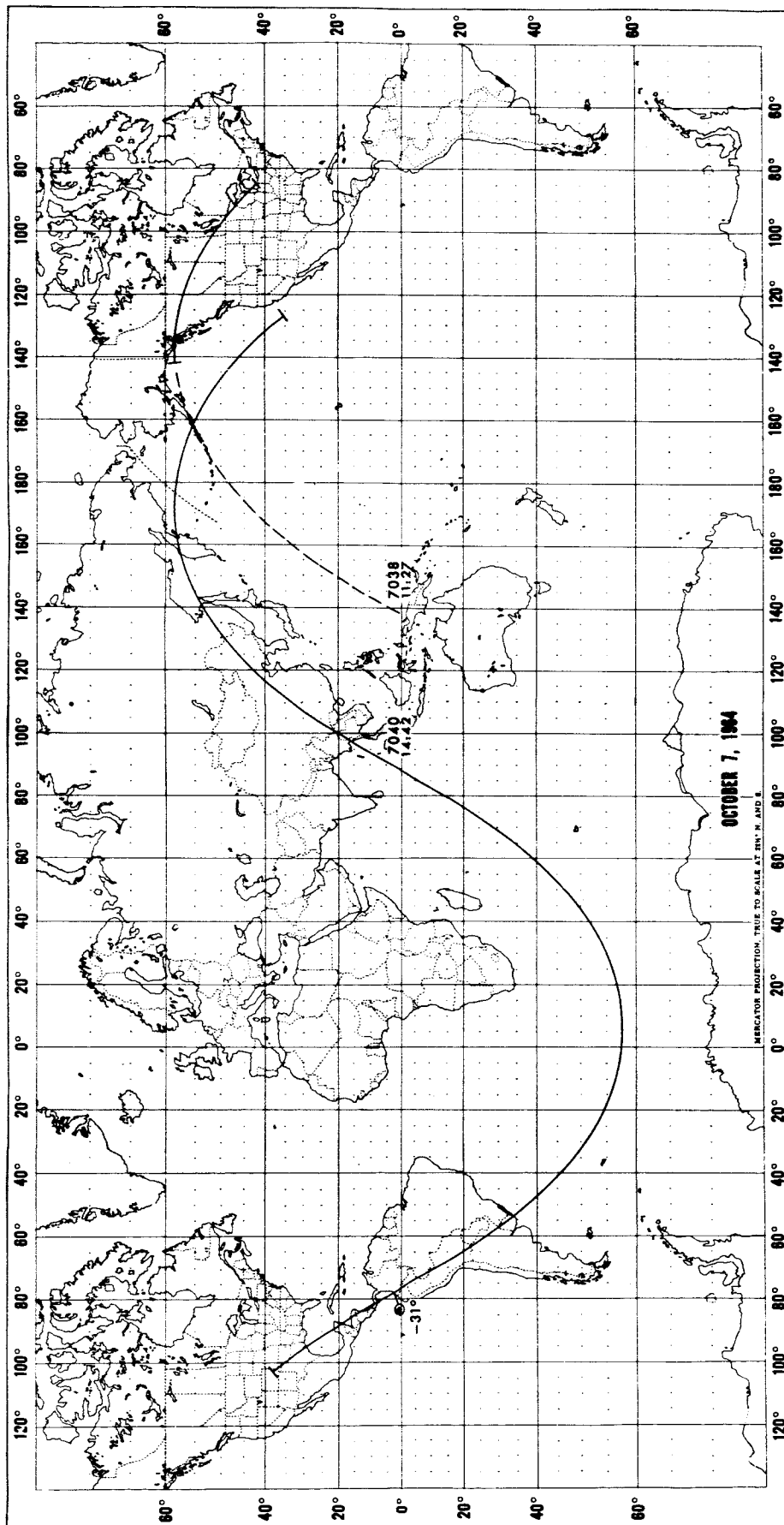
SUBPOINT TRACK SUMMARY OF AVAILABLE RADIATION DATA

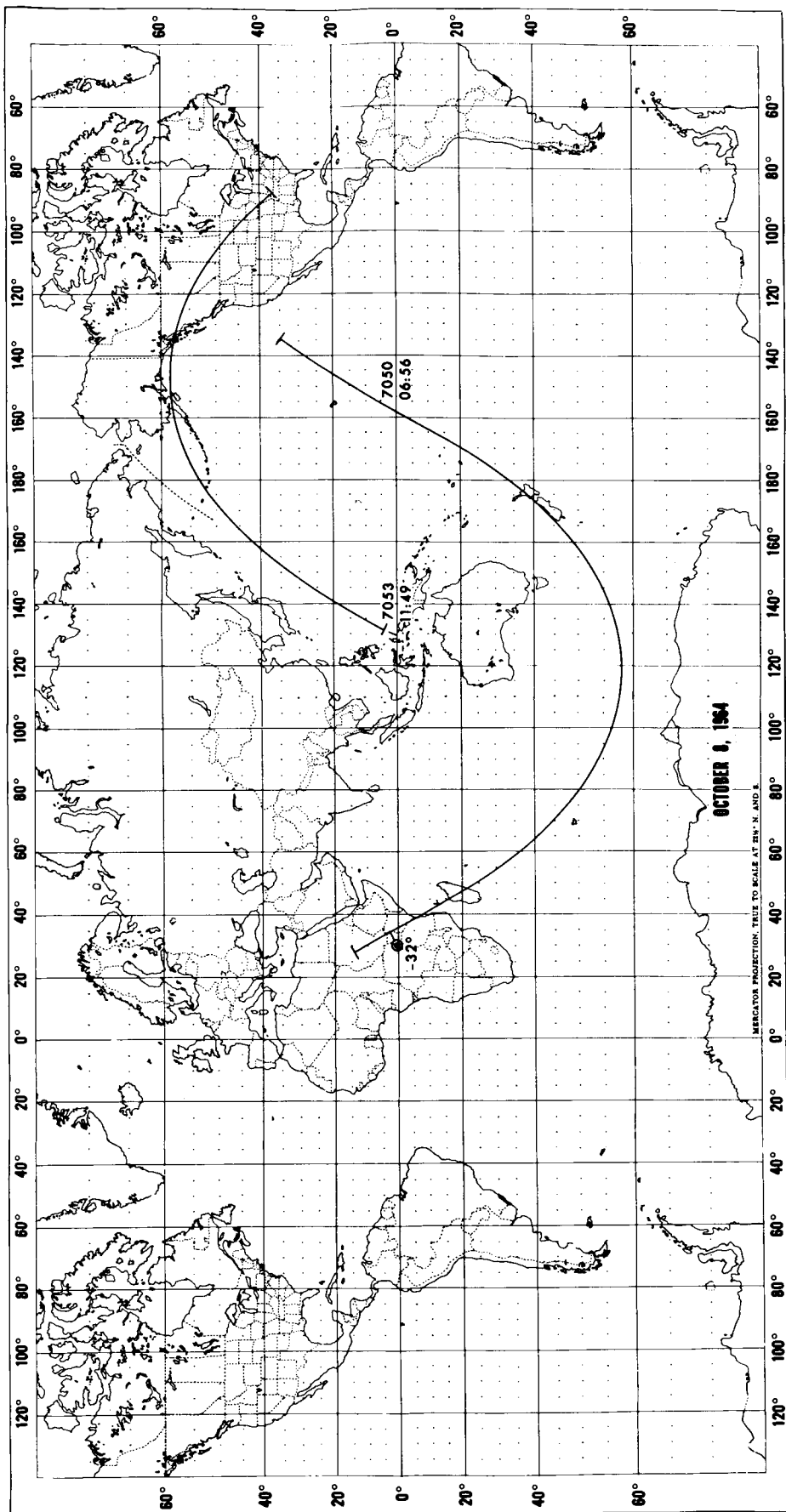
In this section, the time interval for which radiation data are available on the FMR Tapes for TIROS VII from October 1, 1964 to June 19, 1965 is summarized diagrammatically by means of subpoint tracks for each interrogation day. As discussed previously, an interrogation day may be contained within the calendar day, or it may consist of 2 calendar days. This method of presentation enables the data user to quickly appraise the orbits containing data in an area of interest. Additional information illustrating the use of the Subpoint Track Summaries is explained in Appendix B, Volume 1.

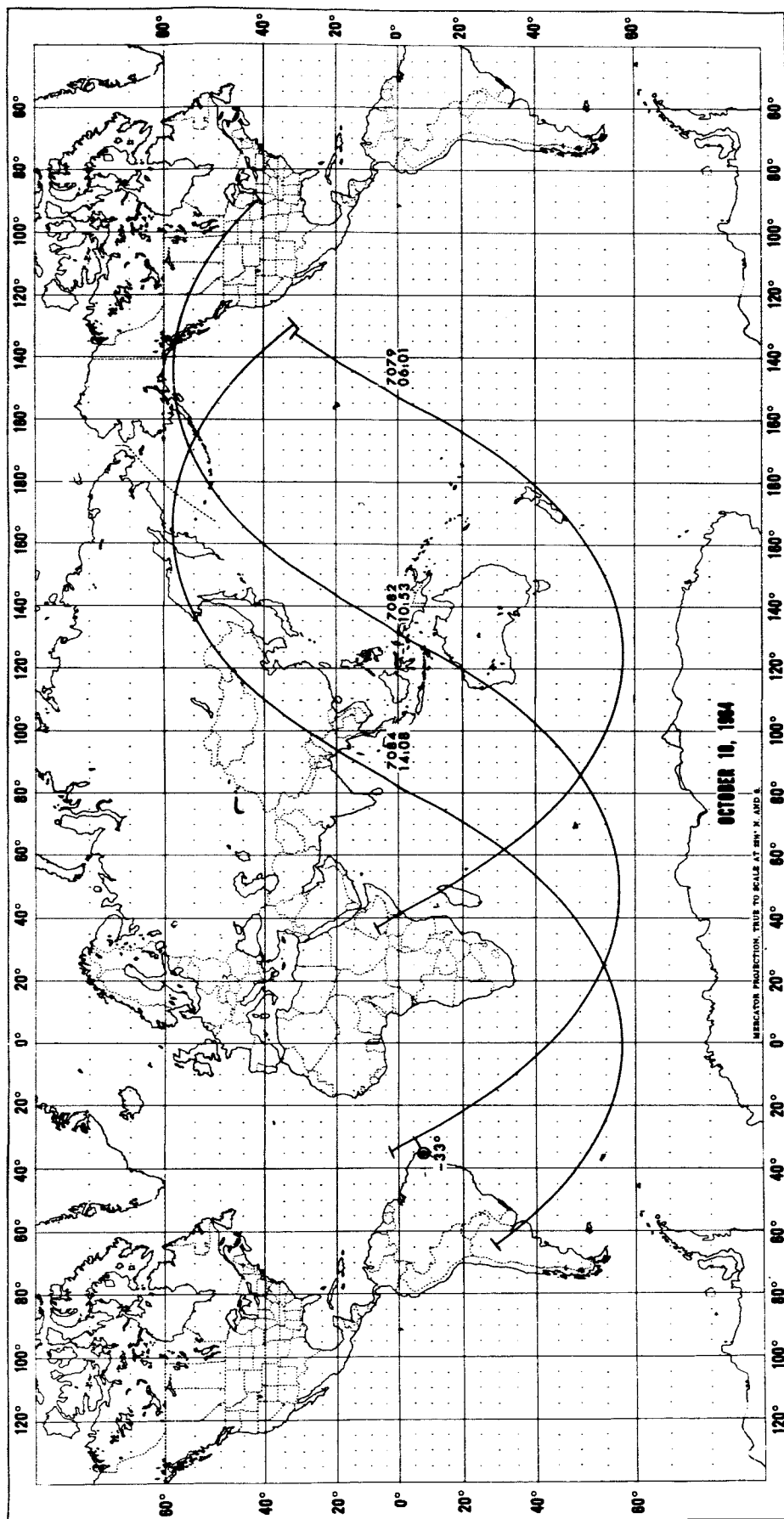


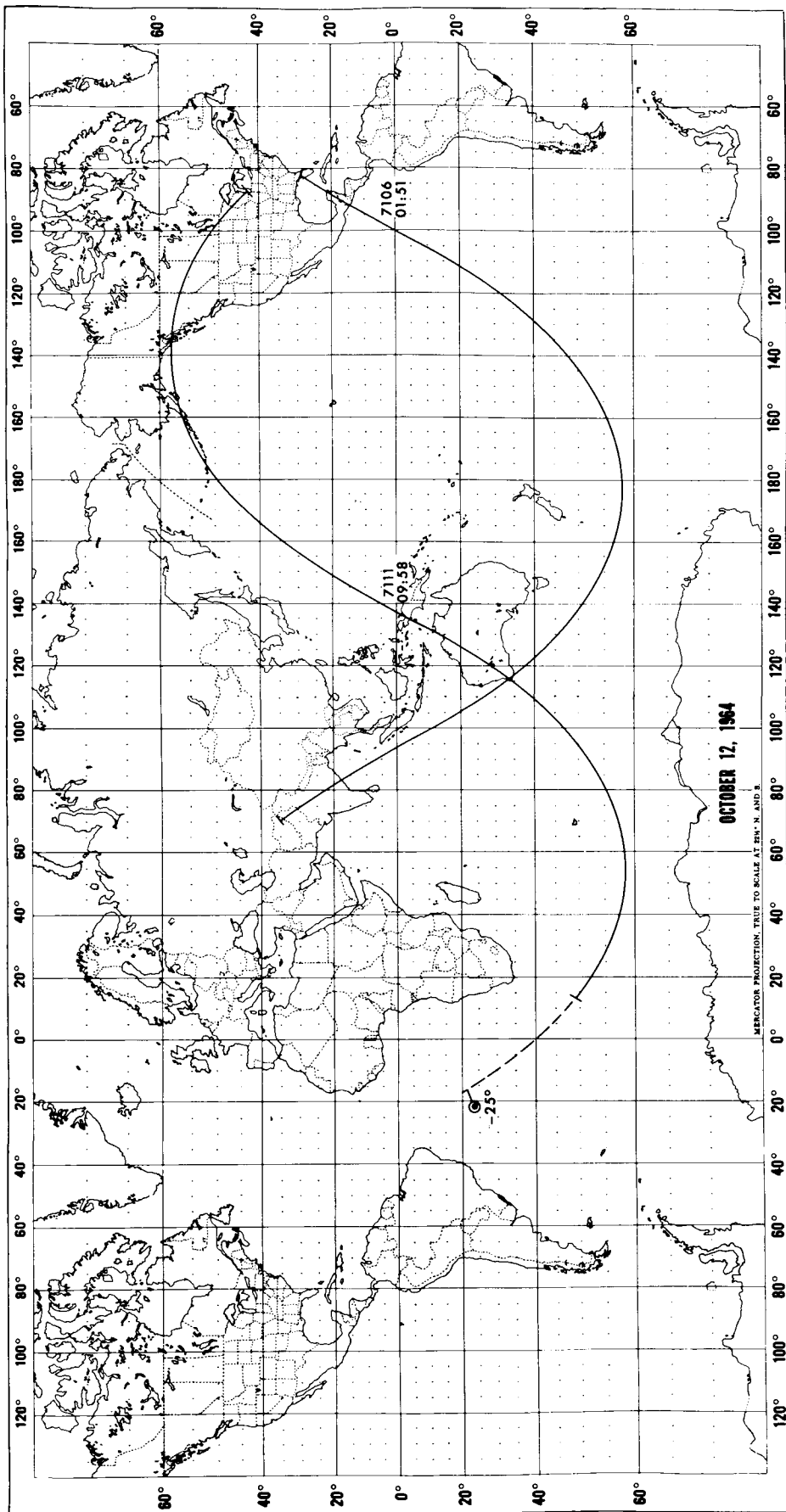


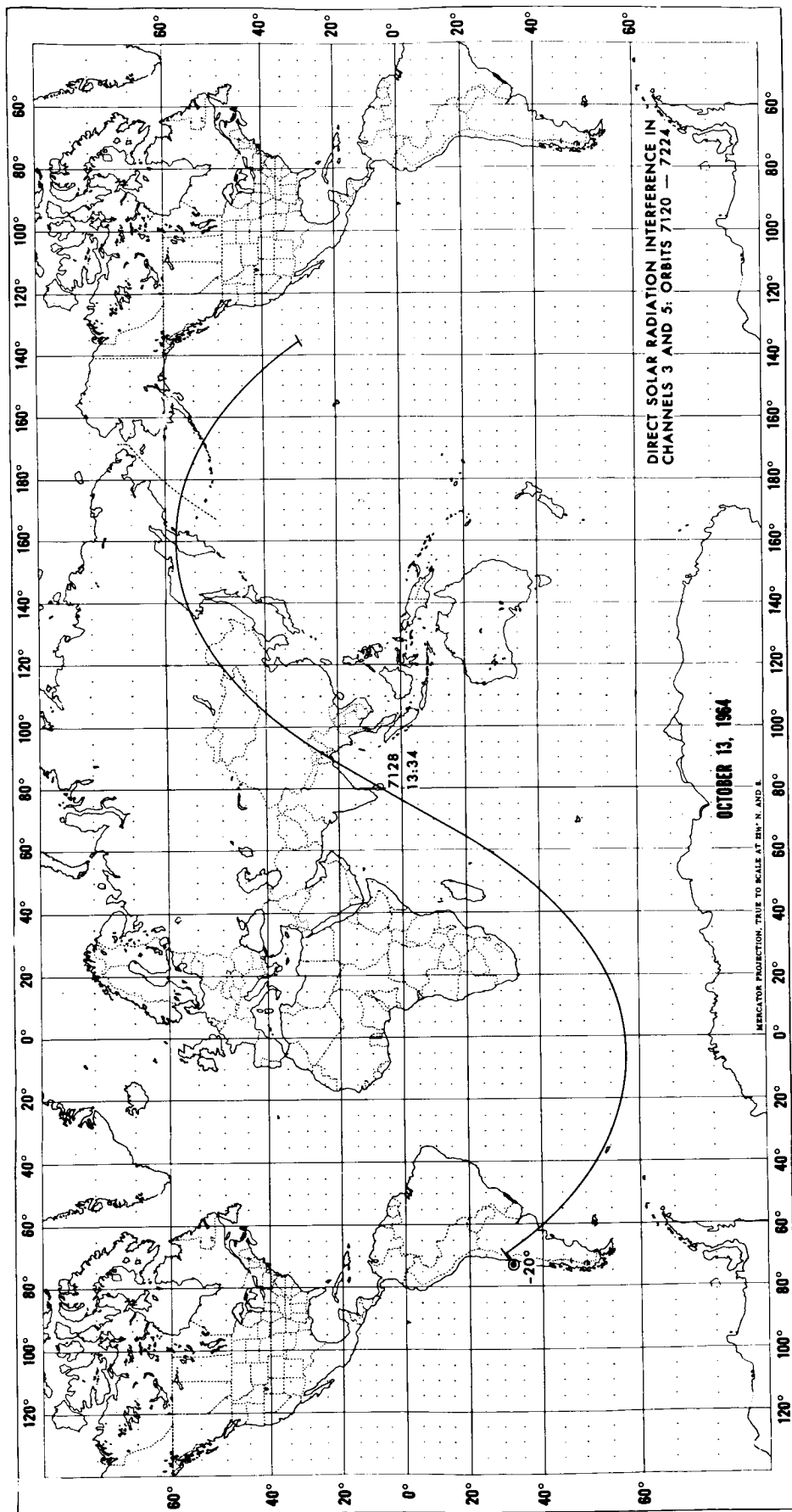


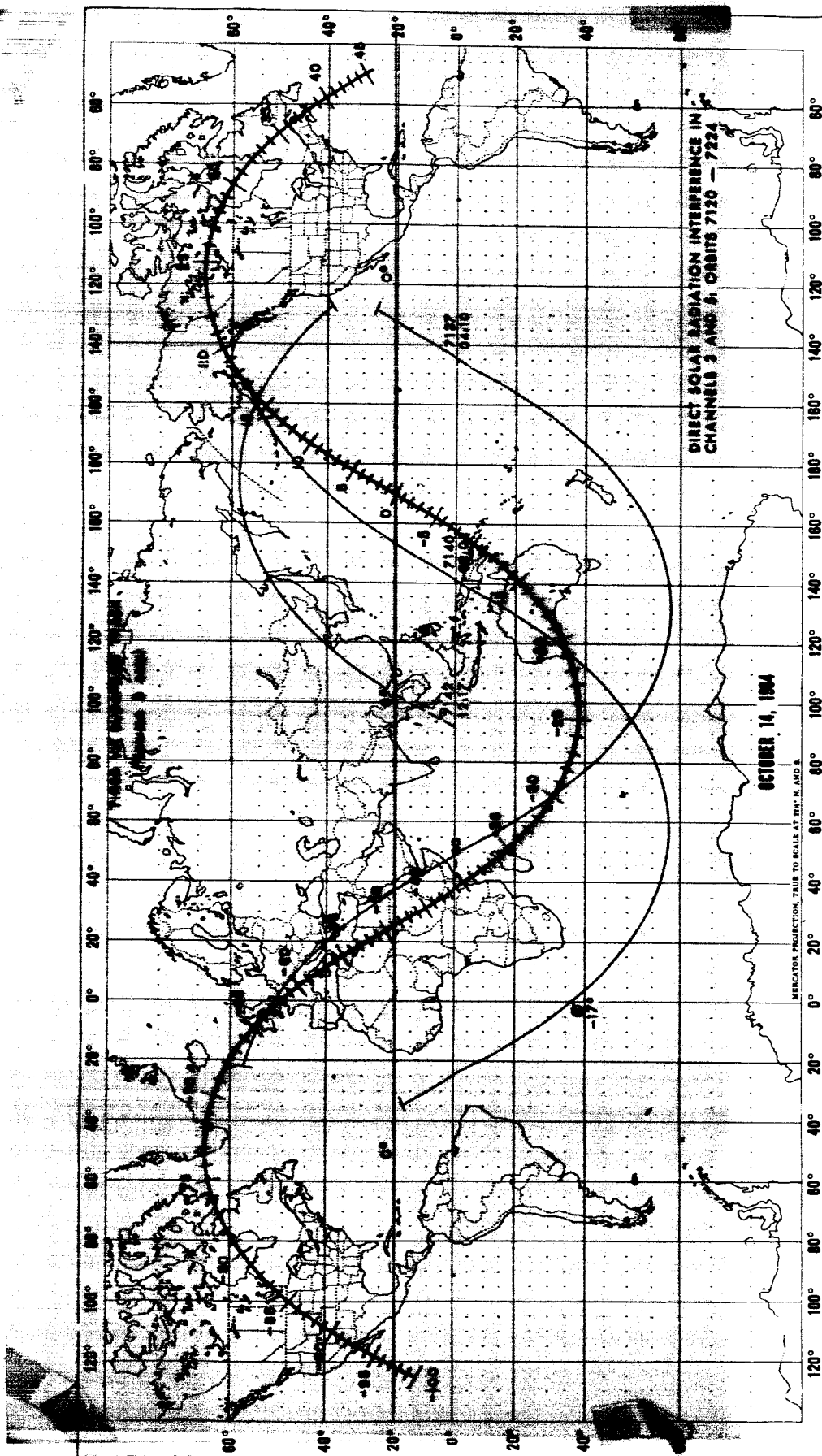


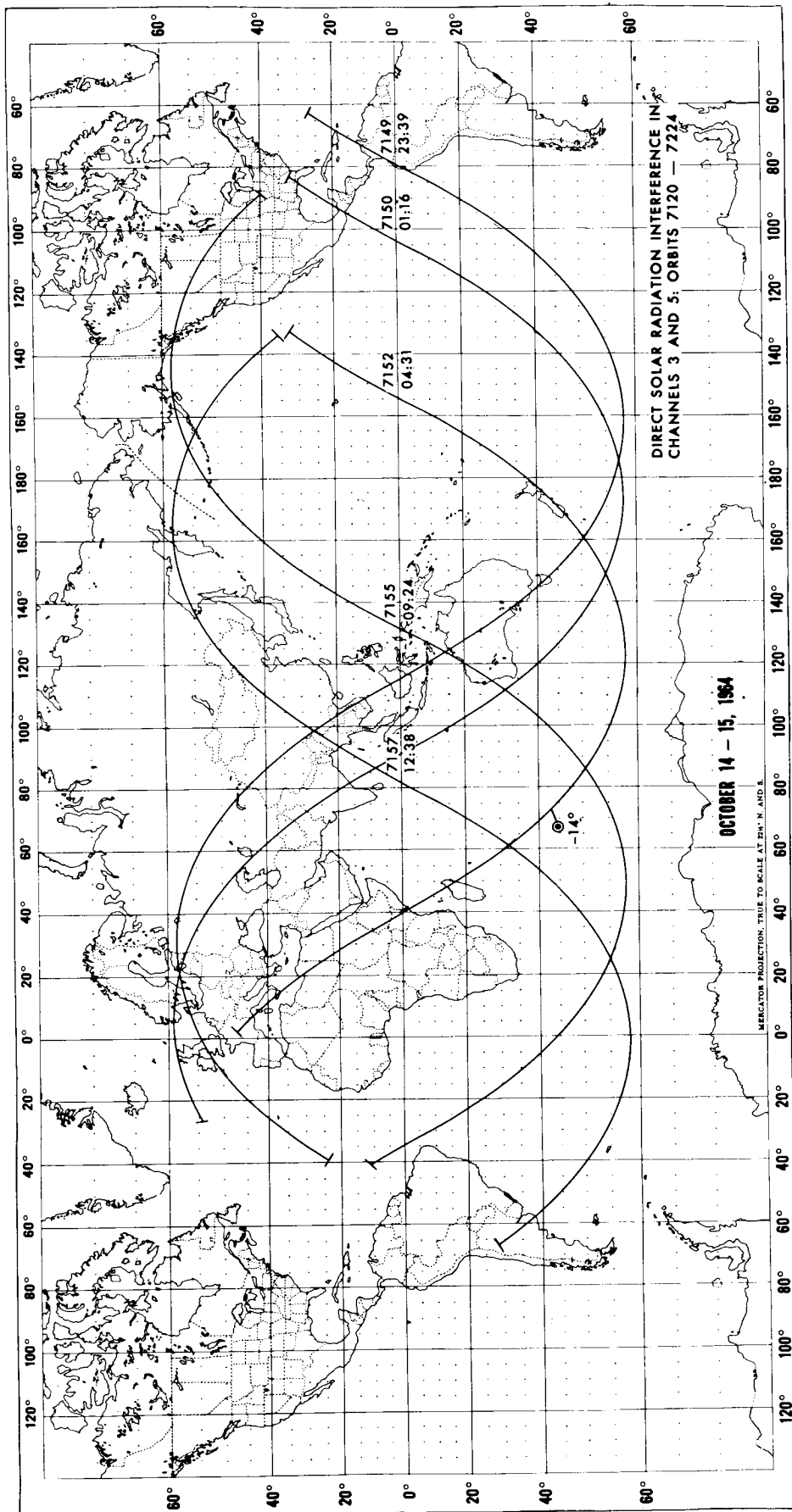


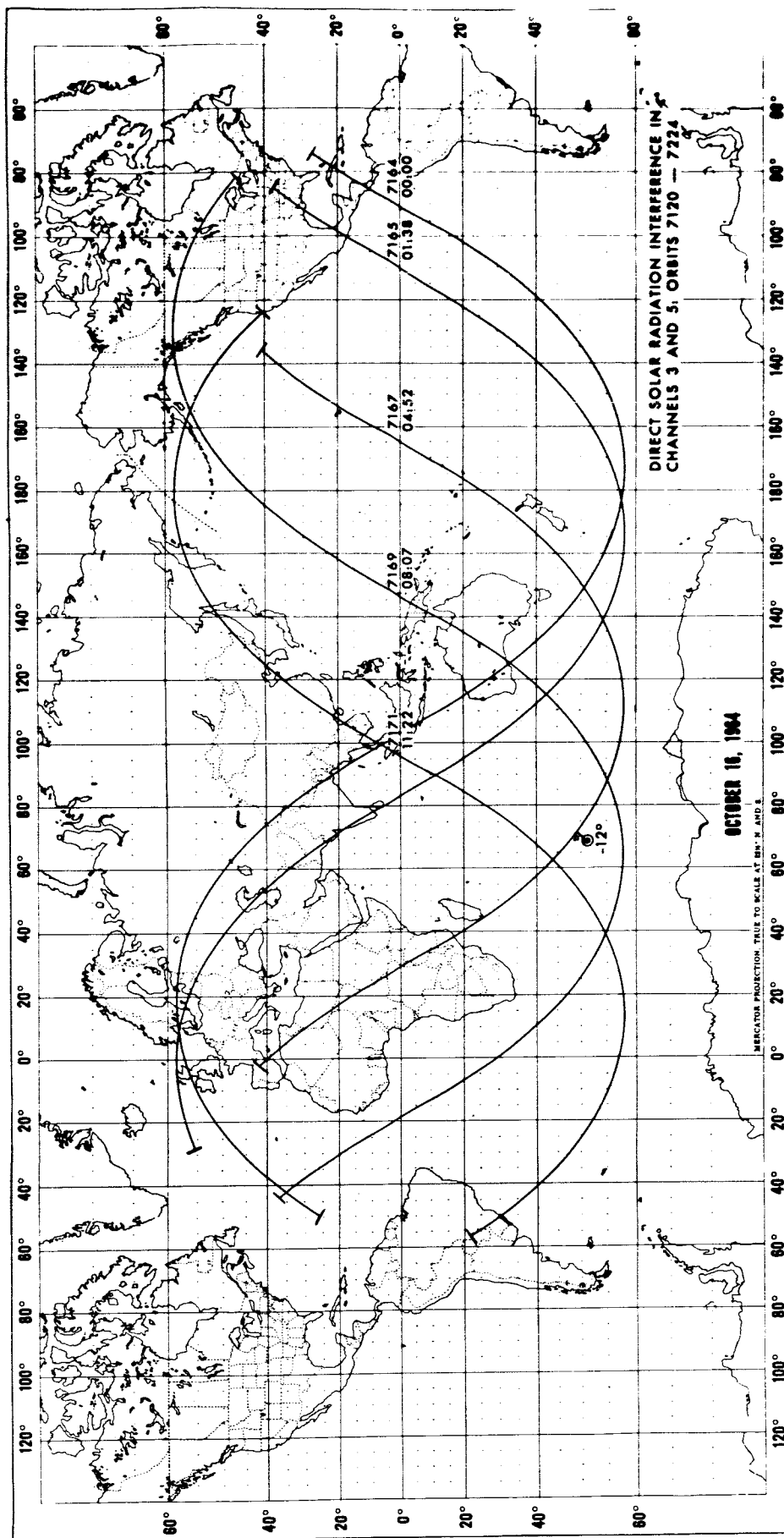


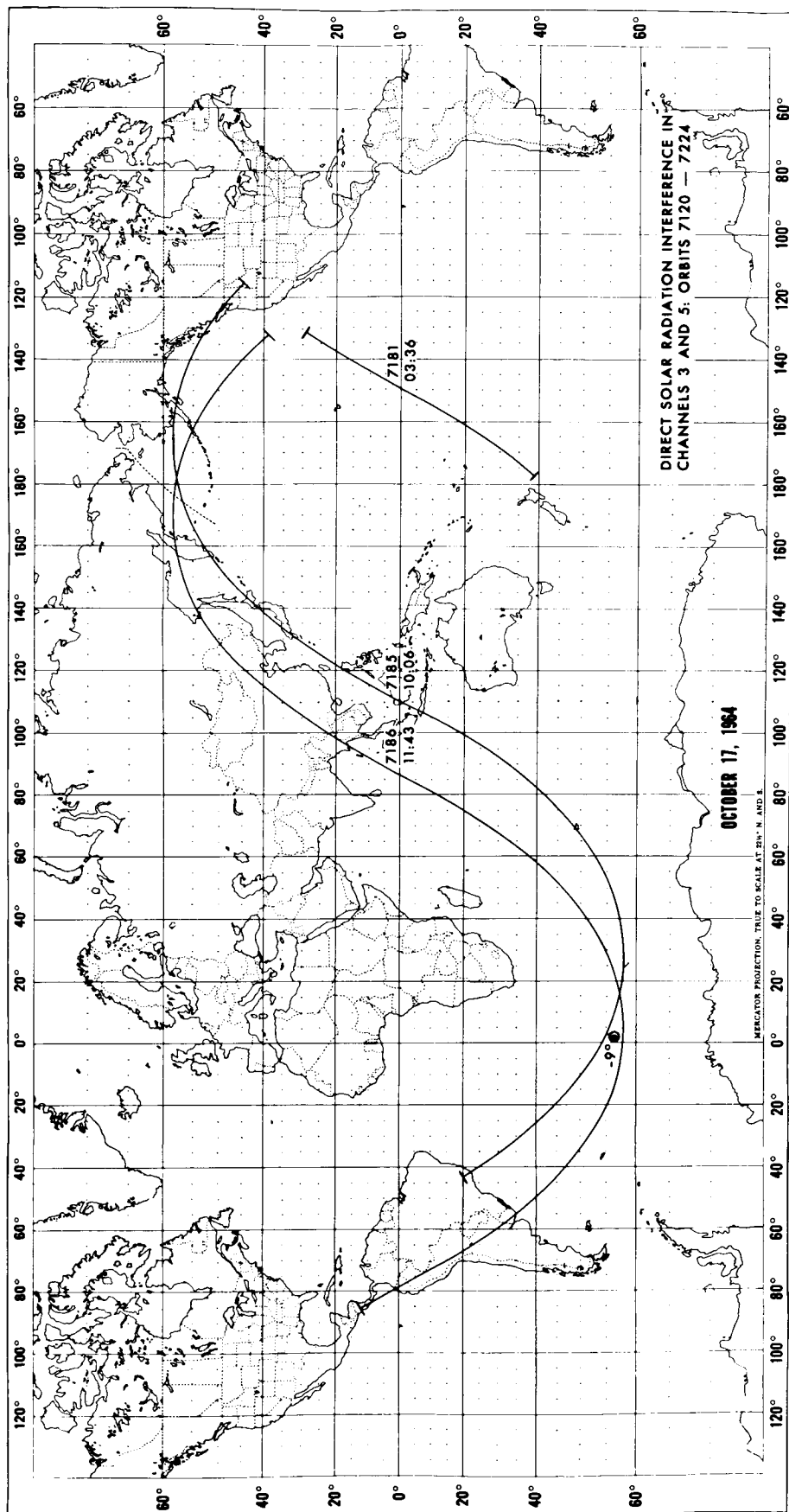


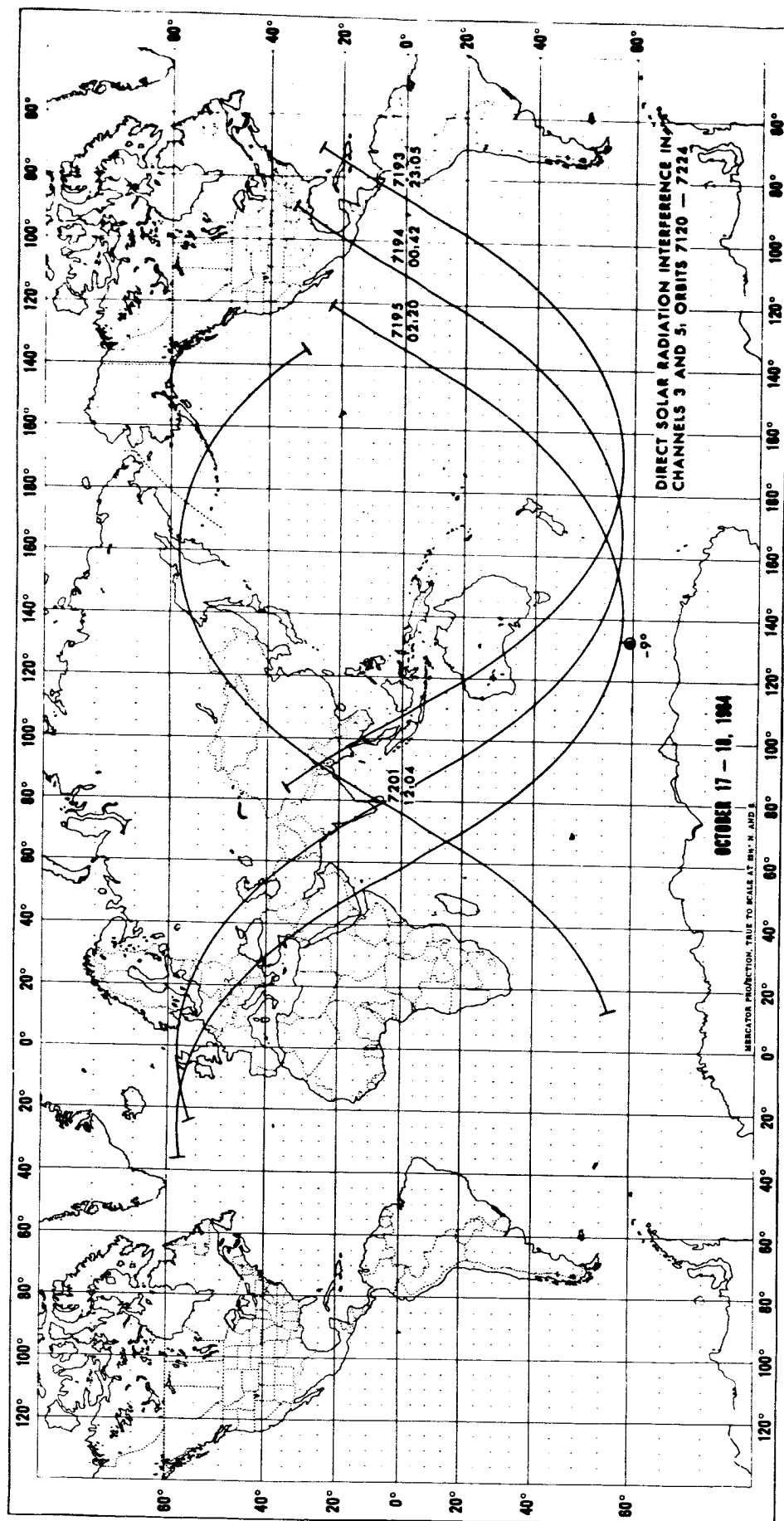


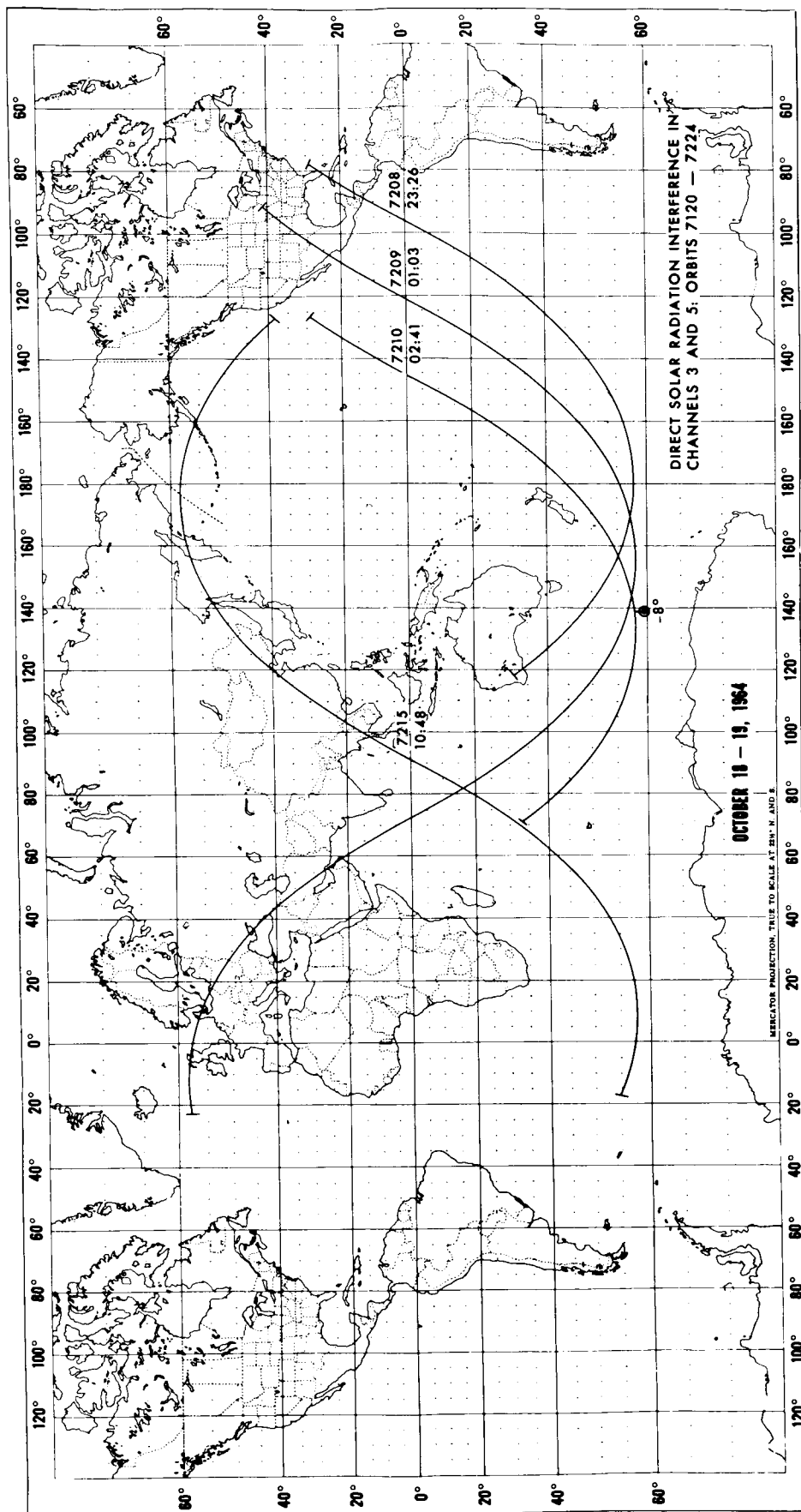


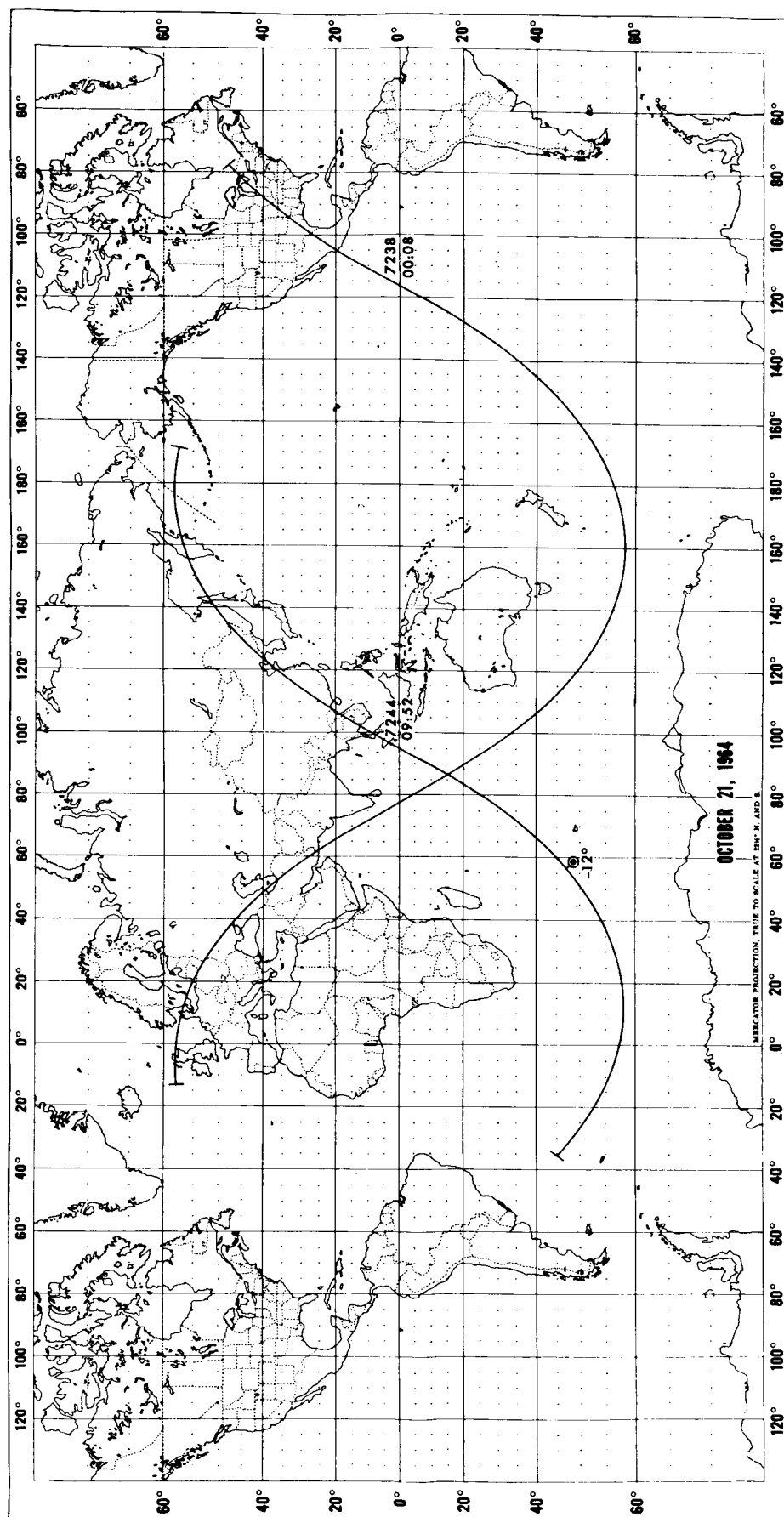


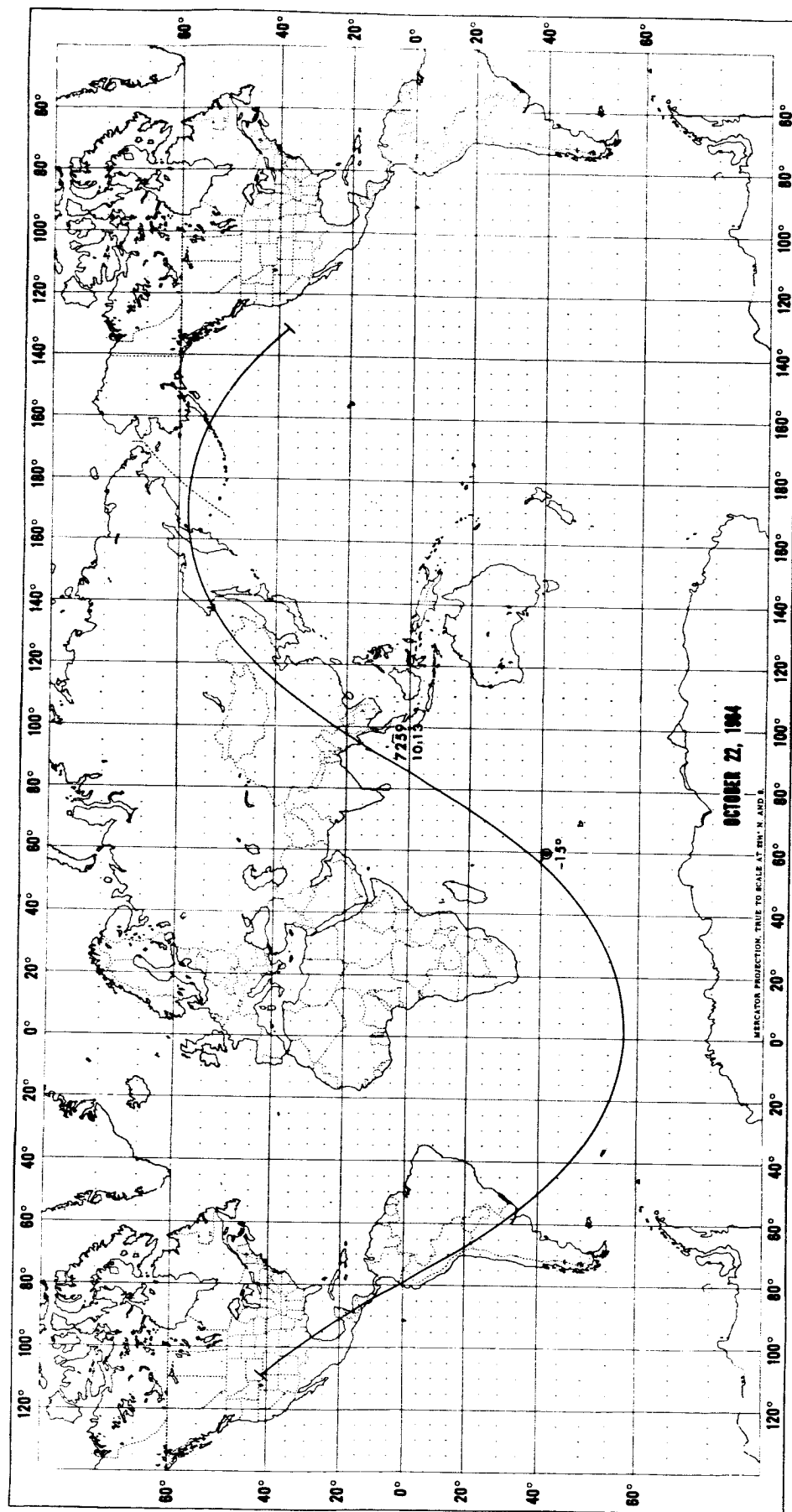


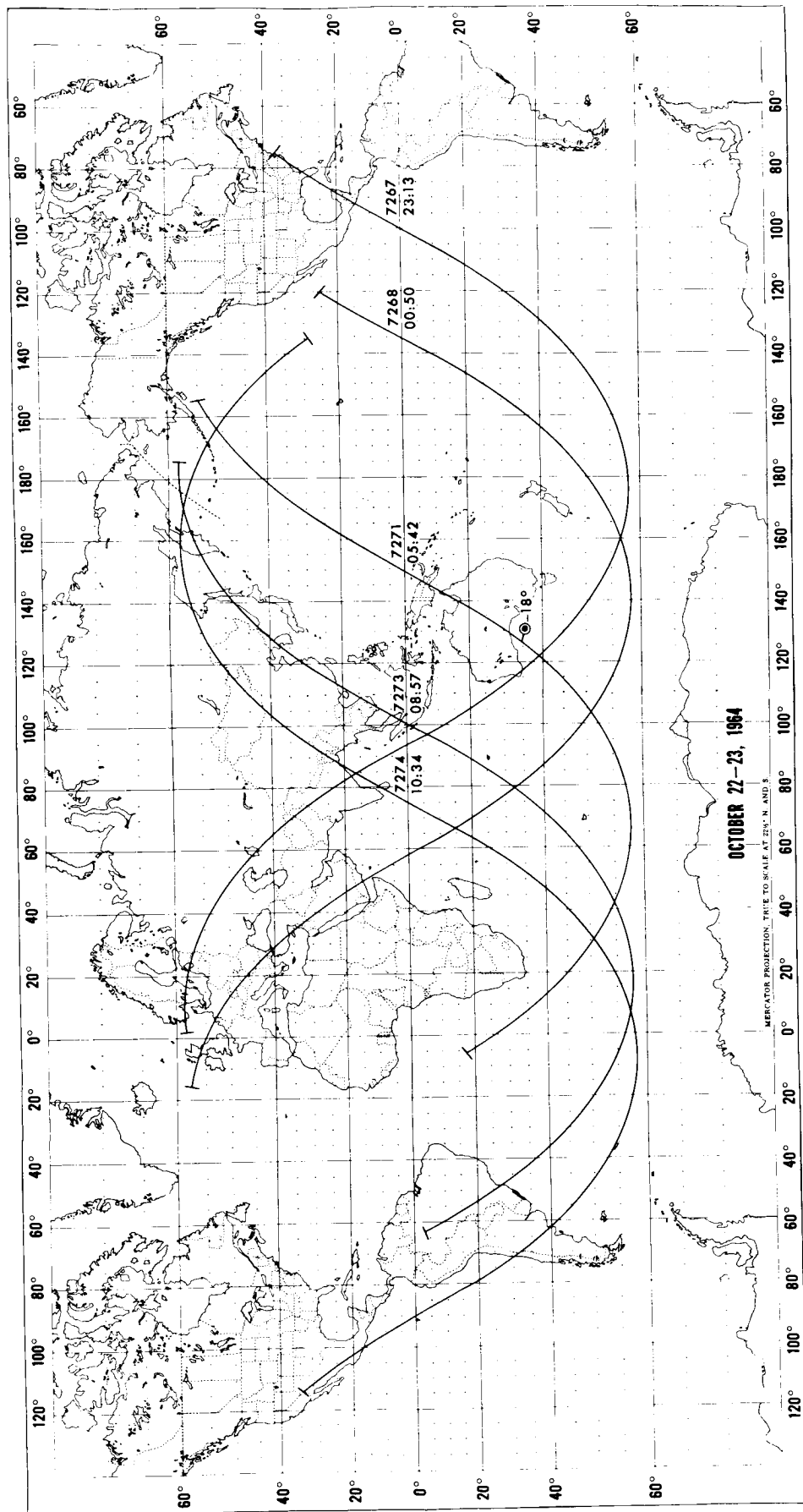


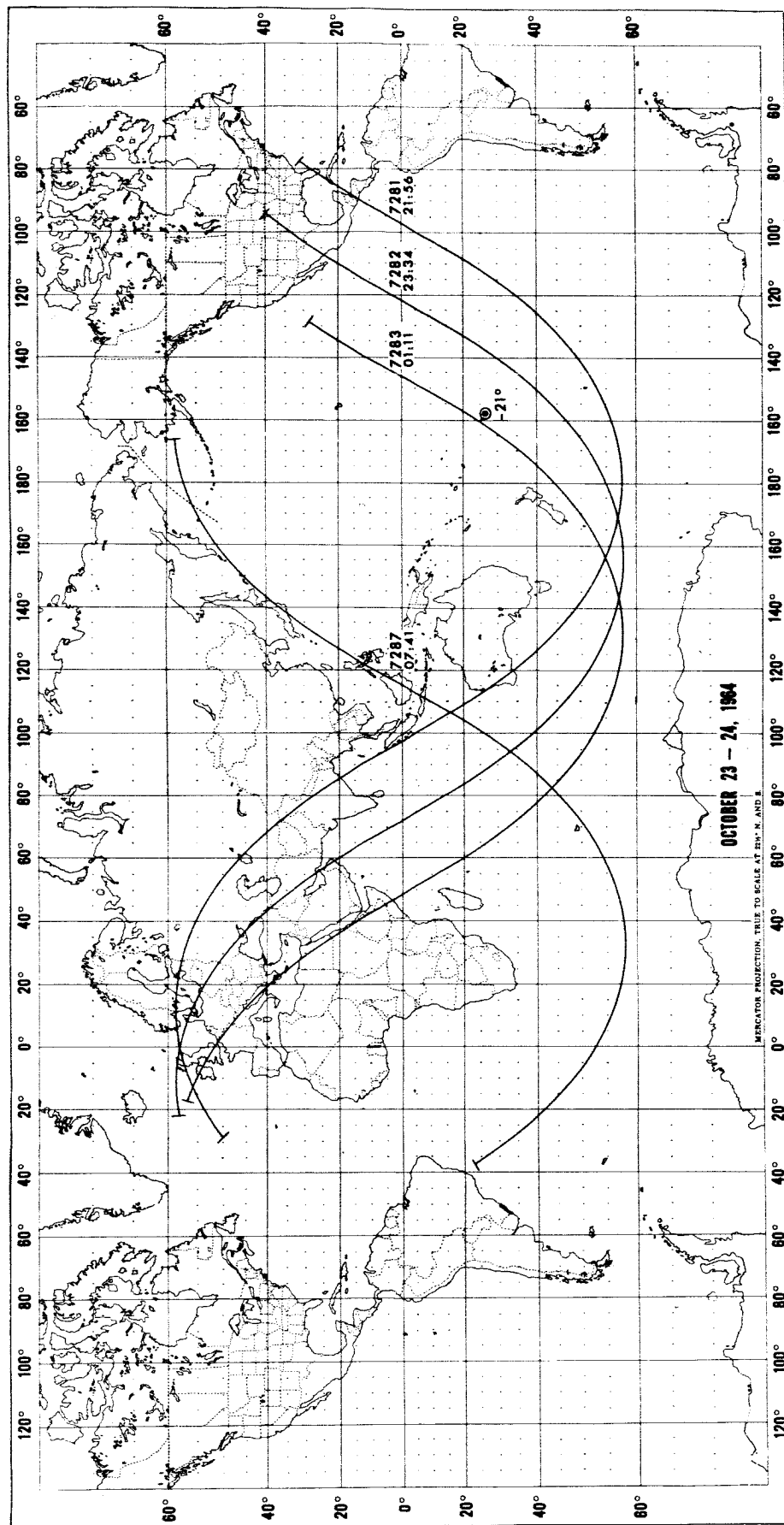


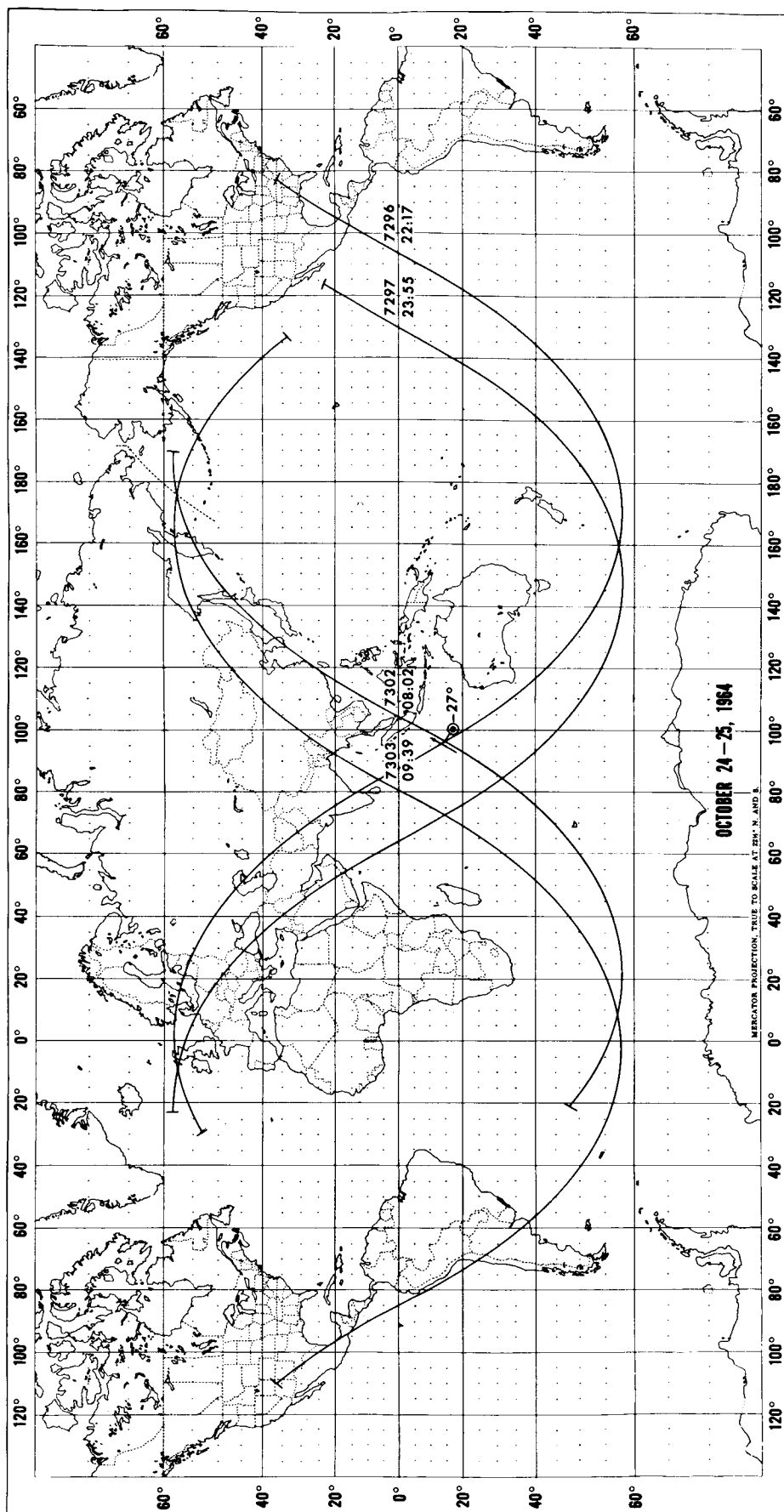


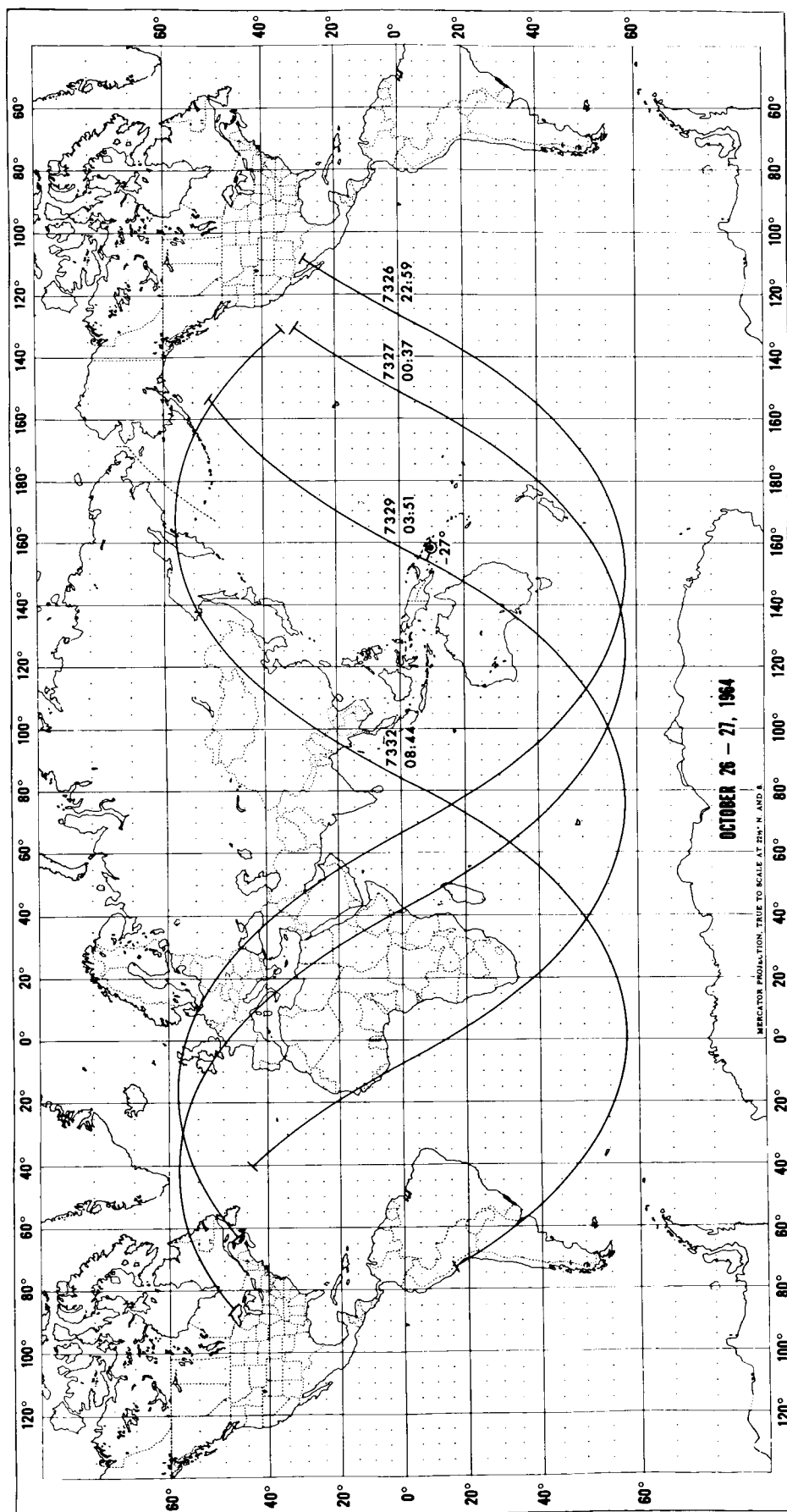












MERCATOR PROJECTION, TRUE TO SCALE AT 20° N. AND S.

